

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: P731733 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-57-80-5S-VHE**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731733 (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: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680N-57-80-5S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

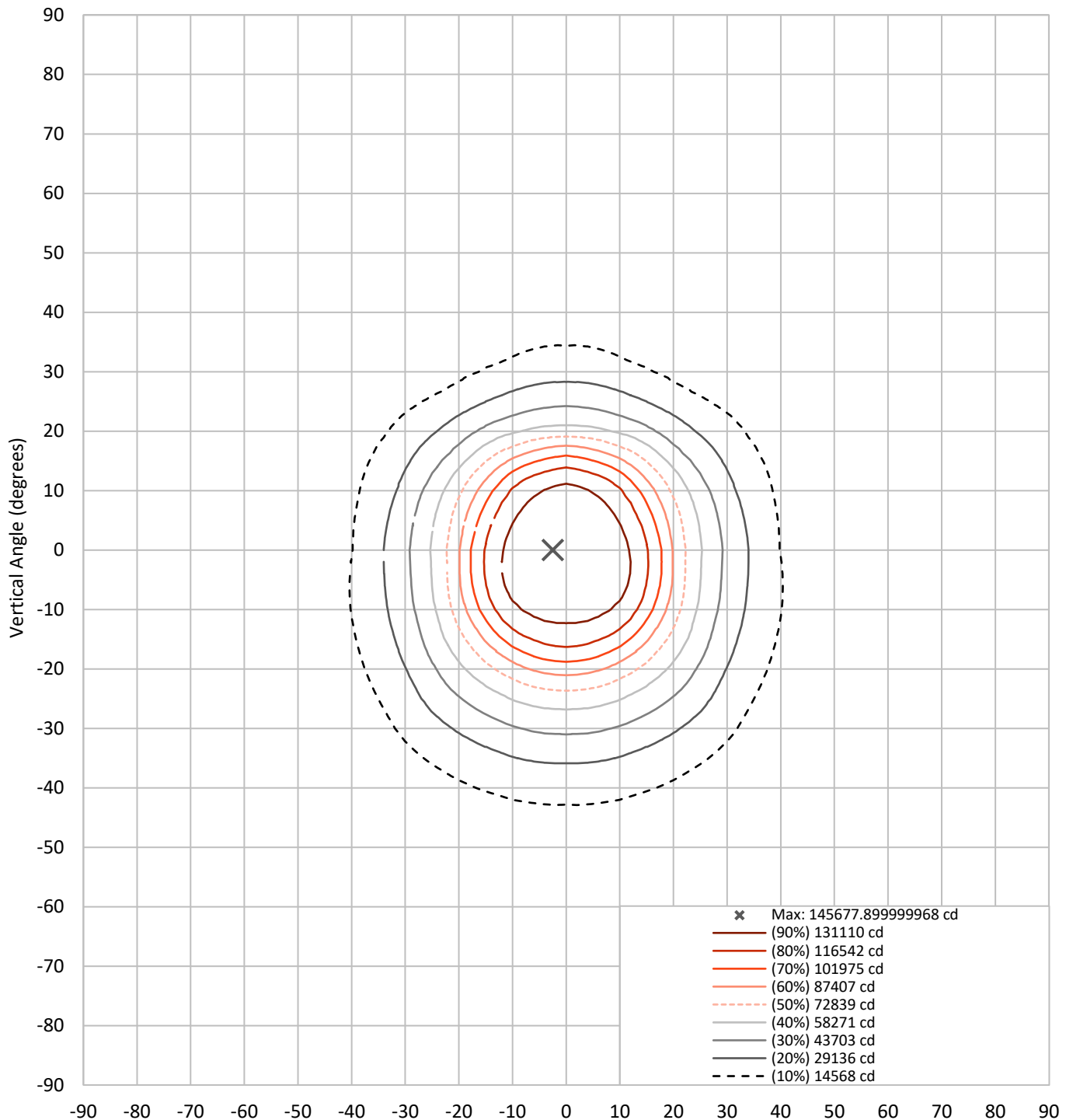
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	94856.1 lumens	Max Intensity:	145677.9 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	136.1 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:	52085 lumens	Field Lumens:	87161.1 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

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





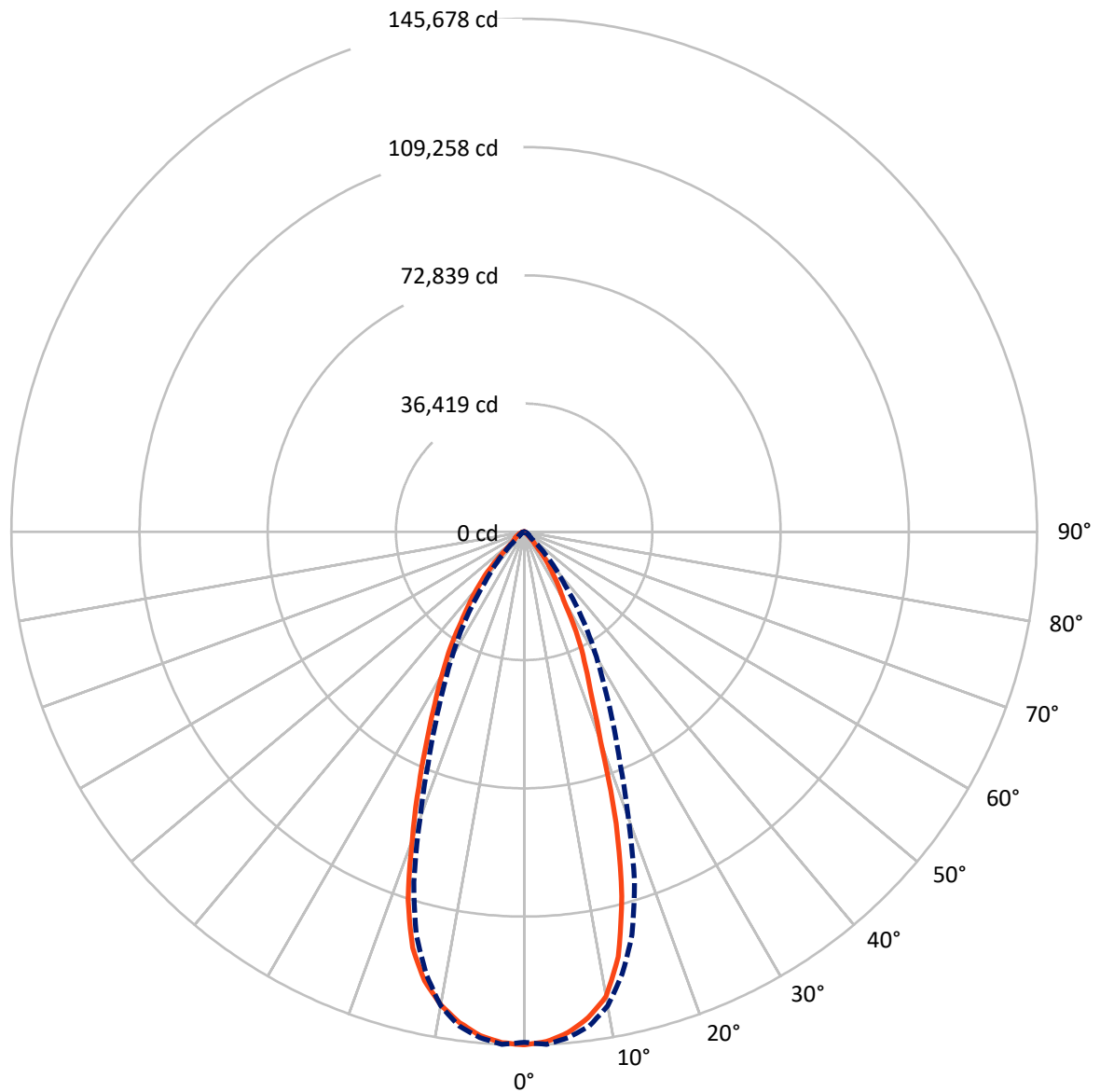
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### Lumen Table

90	0.4	1.4	2.4	3.2	3.7	3.2	2.4	1.4	0.4										
80	0.4	1.4	2.4	3.2	3.7	3.2	2.4	1.4	0.4										
70	0.4	0.2	0.3	0.5	0.7	0.7	0.8	1.0	1.0	0.8	0.7	0.7	0.5	0.3	0.2	0.4			
60		0.5	0.8	1.3	1.4	1.0	1.2	1.4	1.4	1.2	1.0	1.4	1.3	0.8	0.5				
50	1.1	1.3	2.8	5.7	10.2	20.8	46.0	62.1	62.1	46.0	20.8	10.2	5.7	2.8	1.3	1.1			
40		2.9	9.4	19.2	48.8	144.8	268.2	395.1	395.1	268.2	144.8	48.8	19.2	9.4	2.9				
30	2.3	4.9	16.4	41.8	200.8	474.7	872.7	1198.1	1198.1	872.7	474.7	200.8	41.8	16.4	4.9	2.3			
20		6.8	21.9	94.4	438.6	1084.2	2109.5	3014.9	3014.9	2109.5	1084.2	438.6	94.4	21.9	6.8				
10	3.4	8.4	25.8	143.3	617.5	1574.4	3158.5	4190.0	4190.0	3158.5	1574.4	617.5	143.3	25.8	8.4	3.4			
0		9.3	28.7	152.7	665.3	1651.0	3350.9	4255.5	4255.5	3350.9	1651.0	665.3	152.7	28.7	9.3				
-10	4.1	9.6	30.2	125.9	566.5	1379.8	2599.3	3509.6	3509.6	2599.3	1379.8	566.5	125.9	30.2	9.6	4.1			
-20		9.2	30.2	78.2	367.3	913.6	1519.2	1969.3	1969.3	1519.2	913.6	367.3	78.2	30.2	9.2				
-30	4.1	8.2	26.5	56.3	149.5	444.4	747.8	950.0	950.0	747.8	444.4	149.5	56.3	26.5	8.2	4.1			
-40		6.9	19.6	42.6	72.2	117.9	220.6	309.3	309.3	220.6	117.9	72.2	42.6	19.6	6.9				
-50	3.7	5.6	13.0	26.7	47.3	66.1	81.4	93.1	93.1	81.4	66.1	47.3	26.7	13.0	5.6	3.7			
-60		4.5	8.6	15.1	24.5	33.4	42.6	49.0	49.0	42.6	33.4	24.5	15.1	8.6	4.5				
-70	2.8	16.6	36.7	57.6	70.6	57.6	36.7	16.6	2.8						2.8				
-80		16.6	36.7	57.6	70.6	57.6	36.7	16.6	2.8										
-90	2.8	16.6	36.7	57.6	70.6	57.6	36.7	16.6	2.8										

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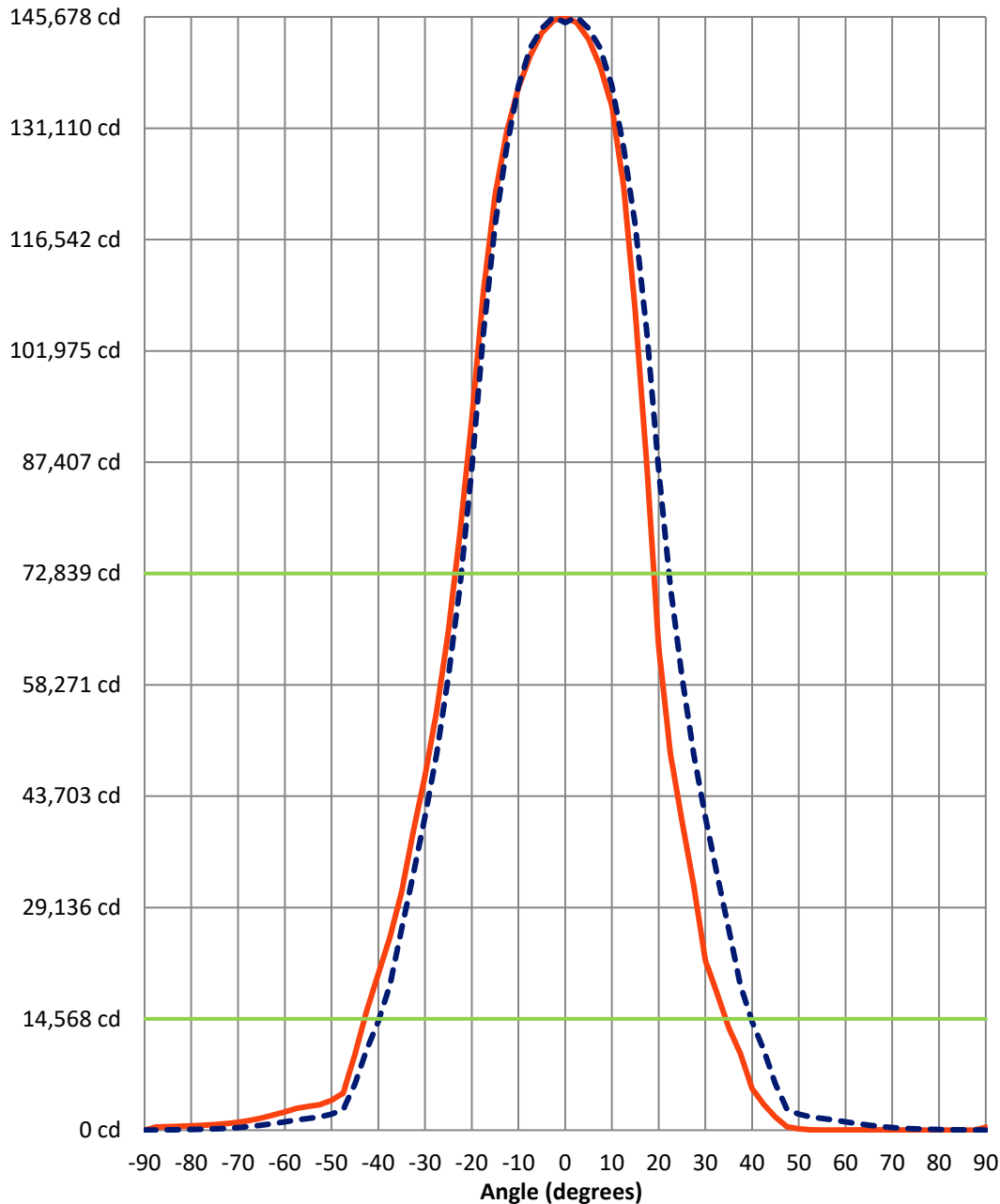
### Luminous Intensity Polar Plot



— 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: 52085  
 Efficiency: 54.9%

**Field:**  
 H Angle: 79.6°  
 V Angle: 77.3°  
 Lumens: 87161.1  
 Efficiency: 91.9%

**Spill:**  
 Lumens: 7694.9  
 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°	12.6	24.6	36.6	60.6	84.7	107.0	129.4	147.7	166.0	179.2	192.3
87.5°	12.6	11.7	10.6	10.7	10.7	10.8	10.9	10.4	10.0	9.8	9.7
85°	12.6	12.0	10.9	11.0	11.1	11.3	11.5	11.1	10.7	10.5	10.1
82.5°	12.6	12.2	11.2	11.4	11.5	11.8	12.1	11.8	11.5	11.1	10.6
80°	12.6	12.5	11.5	11.8	11.9	12.3	12.7	12.5	12.3	11.8	11.2
77.5°	12.6	12.7	11.9	12.2	12.3	12.9	13.3	13.2	13.1	12.6	11.8
75°	12.6	13.0	12.2	12.6	12.8	13.6	14.0	13.9	13.9	13.2	12.4
72.5°	12.6	13.2	12.6	12.9	13.6	14.4	14.6	14.7	14.5	13.8	13.0
70°	12.6	13.5	12.9	13.4	14.4	15.2	15.4	15.5	15.1	14.3	14.1
67.5°	12.6	13.8	13.3	14.0	15.3	16.1	16.4	16.4	15.9	15.6	15.3
65°	12.6	14.1	13.7	14.7	16.1	17.0	17.4	17.4	17.4	17.0	17.0
62.5°	12.6	14.3	14.2	15.4	16.9	18.0	18.5	18.9	19.1	18.8	19.8
60°	12.6	14.6	14.6	16.1	17.8	18.9	19.6	20.7	20.9	22.7	23.0
57.5°	12.6	14.9	15.4	16.7	18.9	19.9	21.7	22.6	25.7	27.5	29.3
55°	12.6	15.2	16.2	17.4	20.2	20.9	24.2	25.0	31.9	34.1	37.7
52.5°	12.6	15.4	17.0	18.1	21.5	22.2	27.0	31.5	38.8	44.4	47.1
50°	12.6	15.7	17.9	18.7	22.9	25.4	29.9	38.5	47.1	55.4	60.9
47.5°	12.6	16.0	18.8	19.5	24.5	28.7	33.6	45.7	57.8	67.0	76.3
45°	12.6	16.3	19.8	20.8	26.1	32.2	39.9	53.0	68.8	81.9	92.6
42.5°	12.6	16.6	20.8	22.1	27.8	35.9	46.2	61.9	80.1	97.4	117.2
40°	12.6	16.9	21.8	24.0	30.2	39.7	53.0	72.0	92.6	113.4	144.6
37.5°	12.6	17.1	22.9	26.3	33.3	43.7	60.3	82.3	107.1	132.7	173.5
35°	12.6	17.4	24.1	28.6	36.3	49.0	67.6	92.7	122.0	158.8	206.9
32.5°	12.6	17.7	25.2	31.0	39.4	54.8	75.5	103.7	137.4	185.4	244.9
30°	12.6	18.0	26.4	33.4	42.5	60.6	84.7	115.3	153.0	212.4	282.2
27.5°	12.6	18.2	27.6	35.9	46.7	66.3	93.7	127.9	170.5	239.7	318.7
25°	12.6	18.5	28.8	38.4	50.9	72.0	102.5	140.0	190.7	269.1	354.5
22.5°	12.6	18.7	30.0	40.9	55.1	77.7	111.1	151.6	209.9	294.4	392.3
20°	12.6	19.0	31.2	43.4	59.2	83.9	119.3	162.7	227.8	318.3	424.0
17.5°	12.6	19.2	32.5	45.9	63.1	89.9	127.5	173.1	244.6	340.8	453.9
15°	12.6	19.5	33.7	48.3	67.0	95.6	135.5	183.3	260.1	361.7	482.2
12.5°	12.6	19.7	34.8	50.8	70.7	101.0	143.0	193.4	275.6	381.0	508.8
10°	12.6	19.9	36.0	53.1	74.3	106.2	150.0	202.8	291.1	403.8	536.9
7.5°	12.6	20.1	37.1	55.4	77.7	111.0	156.6	211.6	305.4	425.8	570.5
5°	12.6	20.3	38.2	57.7	81.0	115.5	162.6	219.6	318.4	446.2	602.0
2.5°	12.6	20.4	39.2	59.8	84.1	119.7	168.0	227.0	330.0	464.6	631.1
0°	12.6	20.6	40.1	61.8	87.0	123.6	172.9	233.5	340.0	480.8	657.1
-2.5°	12.6	21.4	41.8	64.5	91.0	129.3	180.3	243.0	351.6	494.4	670.5
-5°	12.6	22.2	43.4	67.1	94.9	134.5	187.0	251.6	361.5	505.5	680.5
-7.5°	12.6	22.9	45.0	69.6	98.5	139.4	193.1	259.3	369.6	513.8	686.9
-10°	12.6	23.6	46.5	71.9	101.8	143.8	198.6	265.9	375.7	519.4	690.0
-12.5°	12.6	24.3	47.8	74.0	104.9	147.8	203.3	271.5	379.9	522.4	694.8
-15°	12.6	25.0	49.1	76.0	107.7	151.2	207.2	276.1	382.2	523.2	697.3
-17.5°	12.6	25.6	50.3	77.8	110.2	154.2	210.4	280.0	382.7	521.0	694.4
-20°	12.6	26.2	51.3	79.5	112.5	156.6	213.3	283.3	381.3	515.7	685.8



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	12.6	26.8	52.3	81.0	114.4	158.4	216.3	285.5	377.9	507.1	672.1
-25°	12.6	27.3	53.1	82.2	116.0	160.6	218.4	286.8	372.5	495.4	660.1
-27.5°	12.6	27.8	53.8	83.3	117.3	162.7	219.7	287.0	365.2	487.5	651.2
-30°	12.6	28.3	54.4	84.2	118.3	164.3	220.1	286.1	362.1	481.2	637.5
-32.5°	12.6	28.7	54.9	85.0	120.3	165.4	219.7	285.5	361.8	471.5	618.5
-35°	12.6	29.0	55.3	85.5	122.0	165.9	219.7	284.4	359.8	458.6	594.2
-37.5°	12.6	29.3	55.6	85.8	123.3	166.4	219.7	282.6	355.9	442.3	572.1
-40°	12.6	29.5	55.7	85.9	124.4	167.7	219.0	279.7	350.3	432.4	550.8
-42.5°	12.6	29.7	55.7	86.1	125.2	168.5	217.8	275.6	344.7	424.3	525.8
-45°	12.6	29.9	55.6	86.6	125.9	168.9	215.9	271.6	338.6	413.8	499.7
-47.5°	12.6	30.0	55.3	86.8	126.1	168.9	213.2	268.4	331.0	401.1	485.0
-50°	12.6	30.0	55.0	86.8	126.0	168.5	212.2	264.2	321.4	389.7	467.7
-52.5°	12.6	30.0	54.5	86.7	125.4	167.6	211.1	259.1	313.2	376.2	446.8
-55°	12.6	30.0	53.9	86.3	124.4	166.1	209.4	253.5	305.2	360.6	425.8
-57.5°	12.6	29.9	53.1	85.7	123.0	164.1	207.1	250.6	296.1	348.3	402.9
-60°	12.6	29.7	52.3	84.8	121.2	161.6	204.2	246.6	286.9	336.2	381.0
-62.5°	12.6	29.5	51.6	83.7	119.5	158.7	200.4	241.8	281.0	322.2	363.6
-65°	12.6	29.3	50.8	82.3	117.5	155.3	196.0	236.2	274.4	311.3	345.0
-67.5°	12.6	29.0	49.8	80.7	115.1	151.5	191.0	229.4	267.0	301.0	330.6
-70°	12.6	28.6	48.7	79.0	112.4	147.5	185.5	222.0	258.0	290.0	317.7
-72.5°	12.6	28.3	47.5	77.2	109.4	142.9	179.0	214.0	248.2	277.6	304.0
-75°	12.6	27.8	46.2	75.4	106.2	137.9	171.8	204.7	237.8	264.6	289.4
-77.5°	12.6	27.4	44.8	73.4	103.1	132.4	164.1	194.5	225.5	250.7	274.3
-80°	12.6	26.9	43.3	71.1	99.9	127.5	155.8	183.8	212.5	234.8	256.8
-82.5°	12.6	26.4	41.7	68.7	96.4	122.8	149.5	173.8	198.9	218.5	238.1
-85°	12.6	25.8	40.1	66.2	92.7	117.8	143.1	165.4	188.1	204.6	220.9
-87.5°	12.6	25.2	38.4	63.5	88.8	112.5	136.4	156.7	177.2	192.0	206.7
-90°	12.6	11.5	10.3	10.3	10.3	10.3	10.3	9.8	9.2	9.2	9.2





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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°	200.4	208.4	215.8	223.2	232.4	241.6	251.3	261.0	271.3	281.6	291.4
87.5°	9.1	8.6	8.6	8.7	8.2	7.6	7.3	6.9	6.3	5.7	5.6
85°	9.7	9.2	9.3	9.2	8.7	8.4	7.9	7.4	6.9	6.4	6.4
82.5°	10.4	10.3	9.9	9.3	9.1	9.1	8.7	8.1	7.6	7.3	7.1
80°	11.1	11.4	10.5	9.7	9.5	9.3	8.7	8.1	8.0	8.0	7.6
77.5°	11.6	11.5	10.9	10.3	9.9	9.5	9.2	8.8	8.5	8.1	8.0
75°	12.0	11.6	11.2	10.6	10.2	10.2	10.0	9.7	9.4	9.4	9.5
72.5°	12.6	12.3	11.8	10.9	10.5	10.8	10.8	10.5	10.8	11.3	11.2
70°	13.7	13.2	12.4	11.6	11.2	11.6	12.1	13.0	13.9	14.1	15.2
67.5°	14.8	14.3	13.2	12.6	12.3	13.0	13.7	16.6	19.3	20.7	22.4
65°	16.4	15.6	14.6	14.4	13.7	16.5	18.9	21.9	27.3	30.0	29.8
62.5°	18.4	18.7	17.2	17.6	19.9	22.4	26.6	32.8	39.2	41.7	39.4
60°	23.4	22.7	22.8	24.4	26.8	29.9	36.3	44.0	51.4	55.4	49.4
57.5°	30.0	29.7	31.5	32.5	35.9	36.8	45.3	55.0	61.3	66.0	58.2
55°	39.2	39.5	42.9	43.9	46.4	46.3	53.7	62.7	69.2	71.4	63.2
52.5°	52.0	52.6	58.7	59.5	58.7	59.5	62.2	71.9	77.3	77.5	70.3
50°	66.0	73.4	77.2	79.6	75.2	78.0	75.5	86.3	94.4	93.6	96.2
47.5°	86.9	96.8	102.2	106.2	102.9	111.4	109.6	126.2	131.9	163.3	168.3
45°	111.7	127.4	134.7	143.6	153.5	163.8	190.4	190.4	264.8	294.1	371.3
42.5°	139.4	163.0	183.2	186.9	236.2	264.9	301.3	375.7	448.4	539.7	574.5
40°	176.3	202.4	243.6	290.2	345.0	407.5	475.0	565.5	660.9	708.2	714.2
37.5°	217.0	266.2	323.7	408.1	492.3	574.4	660.0	748.5	817.2	834.7	898.8
35°	260.8	332.9	440.2	537.2	635.1	748.5	824.7	906.2	947.4	1019.8	1143.0
32.5°	315.9	401.3	534.8	660.9	769.8	893.1	966.2	1028.5	1125.4	1250.7	1523.1
30°	373.5	478.6	613.5	759.2	893.2	996.7	1079.8	1158.1	1309.8	1612.6	2546.5
27.5°	421.4	545.0	686.8	849.2	1002.1	1096.5	1190.7	1327.4	1598.6	2222.5	3993.7
25°	464.4	598.5	758.7	947.2	1096.9	1200.8	1323.4	1516.5	1942.0	3635.3	5905.0
22.5°	506.3	651.4	840.8	1050.2	1193.0	1303.4	1489.1	1837.8	2729.3	5110.0	7837.8
20°	549.7	718.8	929.8	1145.9	1285.1	1394.2	1633.8	2149.9	3974.8	6697.4	9543.3
17.5°	595.1	786.9	1016.5	1213.9	1344.2	1489.5	1786.4	2405.8	5014.5	8180.0	11365.7
15°	639.4	852.2	1090.6	1272.6	1398.2	1592.3	1991.3	3160.7	6113.9	9835.4	13314.2
12.5°	681.9	911.5	1148.1	1318.7	1451.6	1688.1	2159.6	3992.2	7435.8	11372.6	15008.1
10°	721.9	964.6	1196.5	1362.2	1509.5	1790.3	2321.8	4806.3	8593.0	12371.5	16053.6
7.5°	763.1	1008.9	1237.3	1403.8	1565.5	1886.7	2500.3	5438.8	9457.1	13139.8	16861.5
5°	800.3	1042.9	1276.6	1450.2	1623.1	1972.2	2644.6	5922.3	10105.4	13774.7	17580.9
2.5°	832.9	1069.7	1310.0	1494.0	1679.2	2043.7	2686.2	6056.7	10410.0	14116.3	18288.5
0°	860.9	1089.9	1337.1	1532.9	1729.8	2101.9	2697.2	6033.2	10485.4	14219.8	18977.6
-2.5°	876.7	1116.0	1385.5	1588.8	1775.0	2148.8	2754.3	6042.1	10549.1	14944.6	19863.7
-5°	887.8	1135.5	1425.3	1638.3	1815.1	2181.8	2786.0	5904.8	10462.9	15326.1	20122.8
-7.5°	894.0	1147.8	1454.5	1679.5	1851.5	2205.7	2803.9	5681.4	10467.7	15343.5	19797.0
-10°	897.3	1159.5	1468.2	1702.6	1882.8	2217.2	2795.3	5297.8	10052.2	14928.1	19260.3
-12.5°	908.1	1170.3	1473.1	1719.8	1907.7	2219.9	2808.1	4922.4	9272.7	14172.1	18493.1
-15°	912.3	1173.1	1470.4	1733.9	1948.0	2247.0	2808.5	4339.3	8260.7	13212.7	17528.4
-17.5°	909.5	1167.8	1462.0	1754.3	1985.2	2249.2	2744.8	3574.5	7104.9	11847.8	16258.2
-20°	899.6	1155.7	1443.7	1764.4	2006.5	2267.9	2726.1	3450.3	5972.2	10141.3	14715.8



REPORT NUMBER: P731733 (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°	885.2	1137.0	1417.5	1742.2	2030.7	2308.7	2700.6	3285.1	4640.2	8191.9	12806.5
-25°	868.1	1116.2	1389.4	1716.5	2042.0	2334.8	2621.3	3064.6	3858.1	6523.9	10443.2
-27.5°	850.1	1086.7	1359.5	1673.9	2035.2	2322.3	2574.7	2942.4	3503.1	4670.8	7980.8
-30°	827.4	1051.4	1315.5	1618.8	1974.9	2284.0	2546.3	2784.2	3167.1	3868.9	5855.8
-32.5°	799.5	1010.0	1266.5	1556.0	1884.0	2238.0	2480.6	2687.3	2979.0	3409.0	4224.3
-35°	768.1	973.3	1212.1	1476.8	1776.3	2122.7	2381.8	2600.5	2797.6	3128.6	3649.9
-37.5°	736.1	928.1	1141.9	1392.9	1678.1	1960.9	2266.7	2484.7	2683.2	2891.0	3262.3
-40°	698.6	871.9	1072.2	1304.3	1546.1	1802.8	2086.4	2359.4	2555.6	2772.1	2994.8
-42.5°	657.7	818.6	997.6	1198.8	1415.8	1646.6	1898.3	2171.8	2434.8	2641.7	2846.4
-45°	624.7	761.0	918.1	1097.3	1284.1	1489.5	1719.0	1958.6	2237.8	2505.7	2695.1
-47.5°	584.7	703.6	848.5	990.6	1159.7	1342.8	1538.9	1765.9	2000.0	2263.9	2522.7
-50°	546.5	655.5	766.9	895.1	1038.6	1199.5	1374.4	1574.2	1790.6	2006.9	2241.7
-52.5°	520.4	603.8	698.7	799.8	925.2	1063.2	1218.1	1387.7	1577.4	1766.4	1970.0
-55°	491.7	563.9	632.1	717.7	816.3	936.1	1070.5	1218.7	1363.4	1535.9	1708.8
-57.5°	463.7	523.6	578.3	644.1	726.4	814.4	936.5	1059.9	1185.6	1319.1	1465.2
-60°	435.4	484.4	532.2	585.3	645.4	723.3	808.2	911.4	1014.1	1120.8	1250.1
-62.5°	407.0	446.9	488.0	533.8	584.8	637.4	706.8	782.0	854.0	951.2	1054.2
-65°	384.2	411.7	445.6	486.0	527.1	575.2	623.6	670.6	733.8	807.5	882.2
-67.5°	359.6	385.4	410.4	438.8	475.9	515.6	555.6	597.8	640.6	691.3	745.8
-70°	341.8	360.0	382.2	405.6	430.1	458.8	494.4	529.4	565.4	607.7	651.1
-72.5°	324.9	341.7	358.3	374.6	396.6	420.5	444.0	467.5	497.5	533.5	568.2
-75°	307.7	323.1	338.2	353.2	369.7	387.5	406.0	427.2	450.5	475.5	499.5
-77.5°	290.0	303.7	317.5	331.2	346.4	362.1	378.2	394.5	412.8	432.2	450.8
-80°	271.1	283.9	296.2	308.5	322.1	336.1	350.5	365.0	381.3	398.0	413.5
-82.5°	250.2	261.5	273.1	284.5	297.1	309.7	322.5	335.2	349.5	364.0	377.3
-85°	230.2	239.0	249.2	259.3	270.8	282.2	293.6	304.9	318.1	331.2	342.7
-87.5°	215.4	223.8	232.0	240.2	250.1	259.9	269.7	279.5	291.0	302.5	312.6
-90°	8.6	8.0	8.0	8.0	7.5	6.9	6.9	6.9	6.3	5.7	5.2



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	301.1	307.4	313.7	318.9	324.0	330.9	337.7	346.9	356.0	365.2	374.4
87.5°	5.5	5.1	4.6	4.5	4.5	4.5	4.5	4.0	3.4	3.4	3.4
85°	6.5	6.4	6.3	5.9	5.5	5.5	5.6	5.5	5.5	5.1	4.6
82.5°	6.9	6.9	6.9	6.3	5.7	5.7	5.7	5.7	5.7	5.2	4.6
80°	7.3	7.1	6.9	6.7	6.5	6.2	5.8	5.3	4.8	4.7	4.6
77.5°	8.1	7.8	7.4	7.2	7.0	6.4	5.8	5.2	4.7	4.6	4.6
75°	9.3	8.9	8.6	8.2	7.6	7.3	7.2	6.9	6.5	6.6	6.7
72.5°	11.0	10.8	10.9	11.2	11.1	11.5	12.0	12.5	13.0	13.9	14.9
70°	16.5	17.6	18.1	18.5	18.4	18.2	18.1	18.4	19.0	19.5	20.0
67.5°	24.1	25.9	26.9	27.3	25.5	24.5	24.6	25.1	26.0	27.6	30.0
65°	31.5	31.0	30.1	29.5	29.8	29.9	29.7	30.1	31.6	33.9	36.9
62.5°	36.9	32.0	29.0	27.5	28.5	30.3	29.1	28.1	29.4	30.9	32.4
60°	42.2	33.0	26.4	24.4	24.0	24.8	22.7	20.9	21.5	22.0	22.8
57.5°	47.3	35.3	24.5	20.9	17.5	15.8	15.3	14.6	14.2	13.9	14.0
55°	51.7	38.4	24.0	21.3	18.9	18.4	16.9	16.0	15.4	15.1	15.4
52.5°	57.3	49.4	39.4	36.6	41.3	41.6	36.8	43.7	49.0	51.4	52.4
50°	93.9	84.1	101.0	99.4	119.2	133.1	128.1	143.7	166.8	181.3	187.4
47.5°	206.3	206.7	240.0	269.5	293.9	325.9	350.4	374.1	407.1	427.5	436.8
45°	391.5	424.8	459.5	510.2	558.8	617.9	689.1	745.0	969.6	1193.3	1396.7
42.5°	599.2	635.7	686.6	797.0	928.1	1231.6	1774.3	2077.2	2455.4	2866.9	3024.9
40°	772.0	825.0	964.9	1275.6	2032.3	2752.7	3544.1	4213.3	4805.6	5146.4	5431.2
37.5°	985.6	1112.2	1749.1	2628.5	3569.2	4472.2	5287.2	5994.4	6608.2	7106.1	7598.8
35°	1296.9	2138.0	3078.9	4222.3	5222.3	6058.7	6903.1	7713.5	8409.7	9153.3	10258.2
32.5°	2458.5	3557.9	4768.2	5793.0	6770.4	7825.8	8713.1	10009.7	11025.1	12380.8	14452.7
30°	3946.0	5325.9	6423.3	7448.3	8701.6	10121.8	11603.3	13586.5	15658.8	17820.7	20045.4
27.5°	5855.9	7249.6	8406.5	9773.9	11428.6	13318.6	16151.2	18946.6	21918.7	24622.0	26676.6
25°	8158.1	9634.0	11611.6	13595.6	15963.6	19193.4	22375.8	25800.9	28780.6	31433.5	34403.3
22.5°	10315.6	12735.1	15346.6	18341.7	22198.0	25840.7	29775.4	33241.5	36981.0	40762.1	43686.4
20°	12137.1	15289.0	19035.3	23353.1	27627.5	31753.9	36332.8	41857.7	47424.8	52398.2	56007.4
17.5°	14594.2	18586.0	23249.2	28381.5	32983.2	38096.8	44469.6	51648.2	59448.9	66351.0	71823.7
15°	17278.8	21940.2	27212.9	32590.5	38412.3	45264.4	53459.0	62626.7	72168.7	81846.9	90863.4
12.5°	19104.0	24565.1	30323.0	36717.2	43978.6	53165.7	63116.1	73279.1	84183.4	96225.4	106684.7
10°	20664.3	26722.8	33669.4	41107.1	49451.0	59326.8	69610.9	81955.1	95566.2	107424.7	118627.5
7.5°	22207.5	29326.7	36583.1	44327.3	53494.5	64220.9	76392.2	89668.1	103520.0	116409.3	125570.7
5°	24033.6	31419.5	38675.4	46855.8	56455.9	67613.5	80451.5	95696.6	110290.9	122138.9	130402.0
2.5°	25543.6	32674.9	40104.7	48201.2	58067.8	69717.2	83650.7	100592.4	115567.7	126645.9	134123.0
0°	26312.5	33479.0	41003.9	49231.7	59346.2	71232.8	86434.8	104232.1	118385.5	128619.6	136627.0
-2.5°	26406.2	33223.4	40609.6	48724.7	58610.0	70732.3	86316.9	104324.4	119118.9	129755.8	137656.1
-5°	26133.3	32886.7	40258.7	48378.7	58130.3	70757.3	86405.2	103720.9	118016.6	129034.5	136474.7
-7.5°	25475.2	32268.3	39654.0	47654.4	57252.8	69499.1	84093.5	99789.0	114493.5	126398.2	133261.7
-10°	24511.0	31185.6	38457.5	46116.0	55167.9	66490.3	79542.5	93911.7	108770.8	120153.3	128068.5
-12.5°	23291.5	29608.5	36559.8	43800.4	52346.6	62895.4	74529.9	86562.1	99018.0	111994.8	120238.9
-15°	21891.5	27663.8	34170.7	41450.1	49899.3	58690.5	67932.3	77735.1	89121.8	99736.4	109332.8
-17.5°	20563.0	25534.5	31605.7	38698.1	45893.0	53531.7	61452.1	69455.5	78586.5	86918.7	94372.6
-20°	18893.5	23126.6	28720.6	35022.5	41708.1	48326.9	55130.0	61614.2	68243.0	75025.1	80944.9



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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°	16925.8	21042.5	25709.7	31196.8	37615.3	43506.0	48954.8	54022.1	59335.4	64028.2	68900.0
-25°	14782.2	18740.4	23029.4	28031.4	32959.5	38299.8	42822.1	47131.5	51252.8	54937.6	58726.0
-27.5°	12149.9	16328.4	20556.2	24559.6	28626.2	32460.6	36677.1	40653.0	44090.0	47129.9	50132.5
-30°	9184.3	13619.5	17618.7	21052.9	24276.9	27475.0	30703.0	34039.3	37292.9	40061.1	42520.4
-32.5°	6776.4	10476.2	14172.8	17538.2	20359.9	23003.1	25513.4	28131.0	30406.7	32743.4	35017.7
-35°	4483.4	7098.4	10167.2	13588.5	16527.2	18750.8	21027.0	23113.9	24829.5	26641.0	28358.0
-37.5°	3773.2	4469.0	6521.9	9299.6	12021.4	14578.4	16848.4	18662.6	20241.6	21688.5	23171.4
-40°	3328.3	3725.3	4309.4	5318.6	7607.6	9857.0	12195.7	14124.1	15806.2	17193.3	18558.5
-42.5°	3036.4	3308.8	3599.8	3997.2	4389.0	5490.6	7410.4	9074.9	10652.6	12215.3	13621.9
-45°	2885.2	3038.0	3204.5	3420.6	3588.1	3886.7	4220.2	4533.4	5789.0	7145.9	8281.7
-47.5°	2703.7	2866.8	2991.2	3092.9	3174.4	3305.6	3444.2	3625.4	3916.0	4258.8	4520.4
-50°	2471.8	2669.7	2793.8	2895.9	2954.4	3005.1	3055.0	3168.6	3326.1	3513.0	3661.3
-52.5°	2172.0	2367.7	2543.5	2676.2	2740.9	2804.0	2866.7	2944.8	3034.4	3142.3	3219.7
-55°	1889.3	2052.9	2205.0	2328.7	2440.3	2542.0	2639.7	2722.3	2819.0	2921.7	2993.8
-57.5°	1621.1	1753.2	1878.0	1985.1	2081.7	2167.2	2267.2	2375.8	2499.3	2617.1	2699.8
-60°	1370.4	1475.4	1579.2	1666.3	1744.9	1815.0	1907.4	1998.5	2106.8	2203.2	2273.5
-62.5°	1146.2	1238.0	1314.7	1380.3	1439.6	1498.3	1576.0	1652.2	1741.2	1818.3	1876.6
-65°	952.3	1028.9	1082.9	1131.6	1174.5	1224.5	1284.6	1345.7	1415.8	1475.6	1523.5
-67.5°	802.8	854.7	888.6	918.7	954.3	994.1	1039.5	1088.3	1142.8	1188.0	1224.7
-70°	689.8	722.2	742.7	765.2	791.2	818.7	849.5	886.2	927.6	962.9	993.3
-72.5°	600.4	625.1	642.2	659.5	675.2	693.9	714.6	742.1	772.7	800.3	825.9
-75°	522.8	540.5	556.4	571.5	585.1	601.0	617.5	640.6	665.8	688.5	709.9
-77.5°	470.7	484.4	495.0	505.1	514.9	528.2	541.8	560.5	580.0	598.8	617.0
-80°	429.0	439.5	448.4	455.8	462.7	473.9	485.6	500.9	516.4	532.6	548.7
-82.5°	390.3	399.5	408.0	415.1	421.6	431.8	442.2	455.9	469.6	483.1	496.4
-85°	354.1	362.5	370.5	377.2	383.8	392.1	400.3	412.1	423.9	436.2	448.4
-87.5°	322.5	330.5	338.4	343.7	348.9	356.2	363.5	373.6	383.7	394.2	404.8
-90°	4.6	4.6	4.6	4.0	3.4	3.4	3.4	2.9	2.3	2.3	2.3



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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°	379.0	383.5	385.8	388.1	385.8	383.5	379.0	374.4	365.2	356.0	346.9
87.5°	2.8	2.3	2.3	2.3	2.3	2.3	2.8	3.4	3.4	3.4	4.0
85°	4.0	3.4	4.0	4.6	4.0	3.4	4.0	4.6	5.1	5.5	5.5
82.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.2	5.7	5.7
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.7	4.8	5.3
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.7	5.2
75°	6.3	5.7	5.7	5.7	5.7	5.7	6.3	6.7	6.6	6.5	6.9
72.5°	15.4	15.7	16.5	17.2	16.5	15.7	15.4	14.9	13.9	13.0	12.5
70°	20.3	20.5	20.6	20.6	20.6	20.5	20.3	20.0	19.5	19.0	18.4
67.5°	31.2	31.7	33.0	34.3	33.0	31.7	31.2	30.0	27.6	26.0	25.1
65°	39.0	40.6	41.1	41.2	41.1	40.6	39.0	36.9	33.9	31.6	30.1
62.5°	33.8	35.3	35.6	35.5	35.6	35.3	33.8	32.4	30.9	29.4	28.1
60°	23.6	24.2	24.6	25.2	24.6	24.2	23.6	22.8	22.0	21.5	20.9
57.5°	14.3	15.0	15.0	14.9	15.0	15.0	14.3	14.0	13.9	14.2	14.6
55°	15.6	15.9	15.6	14.9	15.6	15.9	15.6	15.4	15.1	15.4	16.0
52.5°	51.0	48.4	45.9	43.5	45.9	48.4	51.0	52.4	51.4	49.0	43.7
50°	185.4	182.3	177.9	172.9	177.9	182.3	185.4	187.4	181.3	166.8	143.7
47.5°	445.1	446.0	441.7	433.9	441.7	446.0	445.1	436.8	427.5	407.1	374.1
45°	1574.0	1659.6	1705.7	1737.8	1705.7	1659.6	1574.0	1396.7	1193.3	969.6	745.0
42.5°	3163.0	3283.2	3374.4	3393.2	3374.4	3283.2	3163.0	3024.9	2866.9	2455.4	2077.2
40°	5769.0	5789.1	5454.3	4949.0	5454.3	5789.1	5769.0	5431.2	5146.4	4805.6	4213.3
37.5°	8186.1	9030.7	10012.0	10512.9	10012.0	9030.7	8186.1	7598.8	7106.1	6608.2	5994.4
35°	11749.0	13019.6	13431.7	13442.4	13431.7	13019.6	11749.0	10258.2	9153.3	8409.7	7713.5
32.5°	16321.2	17354.3	17905.9	17756.1	17905.9	17354.3	16321.2	14452.7	12380.8	11025.1	10009.7
30°	21341.8	22240.7	22247.9	21947.3	22247.9	22240.7	21341.8	20045.4	17820.7	15658.8	13586.5
27.5°	28803.2	30702.5	32039.3	32399.5	32039.3	30702.5	28803.2	26676.6	24622.0	21918.7	18946.6
25°	37079.2	39166.3	40449.6	40916.9	40449.6	39166.3	37079.2	34403.3	31433.5	28780.6	25800.9
22.5°	46408.1	48437.2	49363.3	49847.6	49363.3	48437.2	46408.1	43686.4	40762.1	36981.0	33241.5
20°	59447.8	62333.0	63420.5	63885.4	63420.5	62333.0	59447.8	56007.4	52398.2	47424.8	41857.7
17.5°	77510.1	83208.3	86771.1	88600.8	86771.1	83208.3	77510.1	71823.7	66351.0	59448.9	51648.2
15°	97536.5	103321.3	107125.5	109406.7	107125.5	103321.3	97536.5	90863.4	81846.9	72168.7	62626.7
12.5°	114716.7	119873.6	123548.0	125732.4	123548.0	119873.6	114716.7	106684.7	96225.4	84183.4	73279.1
10°	125738.4	130160.9	133973.0	135834.8	133973.0	130160.9	125738.4	118627.5	107424.7	95566.2	81955.1
7.5°	131967.5	137109.8	139176.3	140449.6	139176.3	137109.8	131967.5	125570.7	116409.3	103520.0	89668.1
5°	136795.2	140858.8	142766.5	143697.4	142766.5	140858.8	136795.2	130402.0	122138.9	110290.9	95696.6
2.5°	140018.0	143545.8	144894.8	145645.9	144894.8	143545.8	140018.0	134123.0	126645.9	115567.7	100592.4
0°	141564.6	144165.6	145677.9	144940.7	145677.9	144165.6	141564.6	136627.0	128619.6	118385.5	104232.1
-2.5°	141575.4	144047.8	145171.9	144624.7	145171.9	144047.8	141575.4	137656.1	129755.8	119118.9	104324.4
-5°	140364.1	142209.3	143578.6	143139.9	143578.6	142209.3	140364.1	136474.7	129034.5	118016.6	103720.9
-7.5°	137097.8	139550.1	140553.0	140601.8	140553.0	139550.1	137097.8	133261.7	126398.2	114493.5	99789.0
-10°	132604.3	135323.2	136390.9	136500.0	136390.9	135323.2	132604.3	128068.5	120153.3	108770.8	93911.7
-12.5°	125925.8	129115.3	130652.0	130925.9	130652.0	129115.3	125925.8	120238.9	111994.8	99018.0	86562.1
-15°	115558.5	119857.4	122283.9	123135.4	122283.9	119857.4	115558.5	109332.8	99736.4	89121.8	77735.1
-17.5°	101464.5	106600.8	109626.5	110693.5	109626.5	106600.8	101464.5	94372.6	86918.7	78586.5	69455.5
-20°	86763.1	90571.0	92903.5	93864.7	92903.5	90571.0	86763.1	80944.9	75025.1	68243.0	61614.2



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	73390.8	76460.9	78194.0	78963.7	78194.0	76460.9	73390.8	68900.0	64028.2	59335.4	54022.1
-25°	61792.9	64378.6	65267.4	65768.6	65267.4	64378.6	61792.9	58726.0	54937.6	51252.8	47131.5
-27.5°	52316.6	54367.9	54846.5	55288.9	54846.5	54367.9	52316.6	50132.5	47129.9	44090.0	40653.0
-30°	44331.6	46116.7	46360.8	46850.5	46360.8	46116.7	44331.6	42520.4	40061.1	37292.9	34039.3
-32.5°	36864.2	38453.7	39062.5	39156.2	39062.5	38453.7	36864.2	35017.7	32743.4	30406.7	28131.0
-35°	29713.5	30761.1	31175.6	31200.8	31175.6	30761.1	29713.5	28358.0	26641.0	24829.5	23113.9
-37.5°	24091.3	24759.2	25239.2	25107.0	25239.2	24759.2	24091.3	23171.4	21688.5	20241.6	18662.6
-40°	19323.5	19995.4	20434.2	20327.4	20434.2	19995.4	19323.5	18558.5	17193.3	15806.2	14124.1
-42.5°	14397.8	15136.7	15551.4	15436.7	15551.4	15136.7	14397.8	13621.9	12215.3	10652.6	9074.9
-45°	8929.2	9580.5	9886.1	9700.0	9886.1	9580.5	8929.2	8281.7	7145.9	5789.0	4533.4
-47.5°	4658.3	4806.6	4854.0	4787.6	4854.0	4806.6	4658.3	4520.4	4258.8	3916.0	3625.4
-50°	3777.0	3869.9	3909.9	3898.1	3909.9	3869.9	3777.0	3661.3	3513.0	3326.1	3168.6
-52.5°	3280.5	3323.4	3337.6	3329.1	3337.6	3323.4	3280.5	3219.7	3142.3	3034.4	2944.8
-55°	3054.8	3097.5	3112.2	3107.0	3112.2	3097.5	3054.8	2993.8	2921.7	2819.0	2722.3
-57.5°	2768.6	2820.9	2853.4	2870.1	2853.4	2820.9	2768.6	2699.8	2617.1	2499.3	2375.8
-60°	2330.0	2371.9	2383.9	2377.8	2383.9	2371.9	2330.0	2273.5	2203.2	2106.8	1998.5
-62.5°	1922.5	1956.9	1982.6	2000.0	1982.6	1956.9	1922.5	1876.6	1818.3	1741.2	1652.2
-65°	1558.6	1583.6	1588.8	1584.4	1588.8	1583.6	1558.6	1523.5	1475.6	1415.8	1345.7
-67.5°	1250.4	1268.9	1271.3	1267.3	1271.3	1268.9	1250.4	1224.7	1188.0	1142.8	1088.3
-70°	1013.8	1029.4	1031.5	1029.2	1031.5	1029.4	1013.8	993.3	962.9	927.6	886.2
-72.5°	840.9	852.2	860.9	867.8	860.9	852.2	840.9	825.9	800.3	772.7	742.1
-75°	720.8	728.9	731.0	731.5	731.0	728.9	720.8	709.9	688.5	665.8	640.6
-77.5°	626.6	634.8	640.6	645.7	640.6	634.8	626.6	617.0	598.8	580.0	560.5
-80°	556.0	562.2	567.0	571.3	567.0	562.2	556.0	548.7	532.6	516.4	500.9
-82.5°	503.4	509.9	513.9	517.5	513.9	509.9	503.4	496.4	483.1	469.6	455.9
-85°	453.7	458.7	462.4	465.9	462.4	458.7	453.7	448.4	436.2	423.9	412.1
-87.5°	409.6	414.3	416.7	419.0	416.7	414.3	409.6	404.8	394.2	383.7	373.6
-90°	1.7	1.1	1.1	1.1	1.1	1.1	1.7	2.3	2.3	2.3	2.9



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	337.7	330.9	324.0	318.9	313.7	307.4	301.1	291.4	281.6	271.3	261.0
87.5°	4.5	4.5	4.5	4.5	4.6	5.1	5.5	5.6	5.7	6.3	6.9
85°	5.6	5.5	5.5	5.9	6.3	6.4	6.5	6.4	6.4	6.9	7.4
82.5°	5.7	5.7	5.7	6.3	6.9	6.9	6.9	7.1	7.3	7.6	8.1
80°	5.8	6.2	6.5	6.7	6.9	7.1	7.3	7.6	8.0	8.0	8.1
77.5°	5.8	6.4	7.0	7.2	7.4	7.8	8.1	8.0	8.1	8.5	8.8
75°	7.2	7.3	7.6	8.2	8.6	8.9	9.3	9.5	9.4	9.4	9.7
72.5°	12.0	11.5	11.1	11.2	10.9	10.8	11.0	11.2	11.3	10.8	10.5
70°	18.1	18.2	18.4	18.5	18.1	17.6	16.5	15.2	14.1	13.9	13.0
67.5°	24.6	24.5	25.5	27.3	26.9	25.9	24.1	22.4	20.7	19.3	16.6
65°	29.7	29.9	29.8	29.5	30.1	31.0	31.5	29.8	30.0	27.3	21.9
62.5°	29.1	30.3	28.5	27.5	29.0	32.0	36.9	39.4	41.7	39.2	32.8
60°	22.7	24.8	24.0	24.4	26.4	33.0	42.2	49.4	55.4	51.4	44.0
57.5°	15.3	15.8	17.5	20.9	24.5	35.3	47.3	58.2	66.0	61.3	55.0
55°	16.9	18.4	18.9	21.3	24.0	38.4	51.7	63.2	71.4	69.2	62.7
52.5°	36.8	41.6	41.3	36.6	39.4	49.4	57.3	70.3	77.5	77.3	71.9
50°	128.1	133.1	119.2	99.4	101.0	84.1	93.9	96.2	93.6	94.4	86.3
47.5°	350.4	325.9	293.9	269.5	240.0	206.7	206.3	168.3	163.3	131.9	126.2
45°	689.1	617.9	558.8	510.2	459.5	424.8	391.5	371.3	294.1	264.8	190.4
42.5°	1774.3	1231.6	928.1	797.0	686.6	635.7	599.2	574.5	539.7	448.4	375.7
40°	3544.1	2752.7	2032.3	1275.6	964.9	825.0	772.0	714.2	708.2	660.9	565.5
37.5°	5287.2	4472.2	3569.2	2628.5	1749.1	1112.2	985.6	898.8	834.7	817.2	748.5
35°	6903.1	6058.7	5222.3	4222.3	3078.9	2138.0	1296.9	1143.0	1019.8	947.4	906.2
32.5°	8713.1	7825.8	6770.4	5793.0	4768.2	3557.9	2458.5	1523.1	1250.7	1125.4	1028.5
30°	11603.3	10121.8	8701.6	7448.3	6423.3	5325.9	3946.0	2546.5	1612.6	1309.8	1158.1
27.5°	16151.2	13318.6	11428.6	9773.9	8406.5	7249.6	5855.9	3993.7	2222.5	1598.6	1327.4
25°	22375.8	19193.4	15963.6	13595.6	11611.6	9634.0	8158.1	5905.0	3635.3	1942.0	1516.5
22.5°	29775.4	25840.7	22198.0	18341.7	15346.6	12735.1	10315.6	7837.8	5110.0	2729.3	1837.8
20°	36332.8	31753.9	27627.5	23353.1	19035.3	15289.0	12137.1	9543.3	6697.4	3974.8	2149.9
17.5°	44469.6	38096.8	32983.2	28381.5	23249.2	18586.0	14594.2	11365.7	8180.0	5014.5	2405.8
15°	53459.0	45264.4	38412.3	32590.5	27212.9	21940.2	17278.8	13314.2	9835.4	6113.9	3160.7
12.5°	63116.1	53165.7	43978.6	36717.2	30323.0	24565.1	19104.0	15008.1	11372.6	7435.8	3992.2
10°	69610.9	59326.8	49451.0	41107.1	33669.4	26722.8	20664.3	16053.6	12371.5	8593.0	4806.3
7.5°	76392.2	64220.9	53494.5	44327.3	36583.1	29326.7	22207.5	16861.5	13139.8	9457.1	5438.8
5°	80451.5	67613.5	56455.9	46855.8	38675.4	31419.5	24033.6	17580.9	13774.7	10105.4	5922.3
2.5°	83650.7	69717.2	58067.8	48201.2	40104.7	32674.9	25543.6	18288.5	14116.3	10410.0	6056.7
0°	86434.8	71232.8	59346.2	49231.7	41003.9	33479.0	26312.5	18977.6	14219.8	10485.4	6033.2
-2.5°	86316.9	70732.3	58610.0	48724.7	40609.6	33223.4	26406.2	19863.7	14944.6	10549.1	6042.1
-5°	86405.2	70757.3	58130.3	48378.7	40258.7	32886.7	26133.3	20122.8	15326.1	10462.9	5904.8
-7.5°	84093.5	69499.1	57252.8	47654.4	39654.0	32268.3	25475.2	19797.0	15343.5	10467.7	5681.4
-10°	79542.5	66490.3	55167.9	46116.0	38457.5	31185.6	24511.0	19260.3	14928.1	10052.2	5297.8
-12.5°	74529.9	62895.4	52346.6	43800.4	36559.8	29608.5	23291.5	18493.1	14172.1	9272.7	4922.4
-15°	67932.3	58690.5	49899.3	41450.1	34170.7	27663.8	21891.5	17528.4	13212.7	8260.7	4339.3
-17.5°	61452.1	53531.7	45893.0	38698.1	31605.7	25534.5	20563.0	16258.2	11847.8	7104.9	3574.5
-20°	55130.0	48326.9	41708.1	35022.5	28720.6	23126.6	18893.5	14715.8	10141.3	5972.2	3450.3



REPORT NUMBER: P731733 (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°	48954.8	43506.0	37615.3	31196.8	25709.7	21042.5	16925.8	12806.5	8191.9	4640.2	3285.1
-25°	42822.1	38299.8	32959.5	28031.4	23029.4	18740.4	14782.2	10443.2	6523.9	3858.1	3064.6
-27.5°	36677.1	32460.6	28626.2	24559.6	20556.2	16328.4	12149.9	7980.8	4670.8	3503.1	2942.4
-30°	30703.0	27475.0	24276.9	21052.9	17618.7	13619.5	9184.3	5855.8	3868.9	3167.1	2784.2
-32.5°	25513.4	23003.1	20359.9	17538.2	14172.8	10476.2	6776.4	4224.3	3409.0	2979.0	2687.3
-35°	21027.0	18750.8	16527.2	13588.5	10167.2	7098.4	4483.4	3649.9	3128.6	2797.6	2600.5
-37.5°	16848.4	14578.4	12021.4	9299.6	6521.9	4469.0	3773.2	3262.3	2891.0	2683.2	2484.7
-40°	12195.7	9857.0	7607.6	5318.6	4309.4	3725.3	3328.3	2994.8	2772.1	2555.6	2359.4
-42.5°	7410.4	5490.6	4389.0	3997.2	3599.8	3308.8	3036.4	2846.4	2641.7	2434.8	2171.8
-45°	4220.2	3886.7	3588.1	3420.6	3204.5	3038.0	2885.2	2695.1	2505.7	2237.8	1958.6
-47.5°	3444.2	3305.6	3174.4	3092.9	2991.2	2866.8	2703.7	2522.7	2263.9	2000.0	1765.9
-50°	3055.0	3005.1	2954.4	2895.9	2793.8	2669.7	2471.8	2241.7	2006.9	1790.6	1574.2
-52.5°	2866.7	2804.0	2740.9	2676.2	2543.5	2367.7	2172.0	1970.0	1766.4	1577.4	1387.7
-55°	2639.7	2542.0	2440.3	2328.7	2205.0	2052.9	1889.3	1708.8	1535.9	1363.4	1218.7
-57.5°	2267.2	2167.2	2081.7	1985.1	1878.0	1753.2	1621.1	1465.2	1319.1	1185.6	1059.9
-60°	1907.4	1815.0	1744.9	1666.3	1579.2	1475.4	1370.4	1250.1	1120.8	1014.1	911.4
-62.5°	1576.0	1498.3	1439.6	1380.3	1314.7	1238.0	1146.2	1054.2	951.2	854.0	782.0
-65°	1284.6	1224.5	1174.5	1131.6	1082.9	1028.9	952.3	882.2	807.5	733.8	670.6
-67.5°	1039.5	994.1	954.3	918.7	888.6	854.7	802.8	745.8	691.3	640.6	597.8
-70°	849.5	818.7	791.2	765.2	742.7	722.2	689.8	651.1	607.7	565.4	529.4
-72.5°	714.6	693.9	675.2	659.5	642.2	625.1	600.4	568.2	533.5	497.5	467.5
-75°	617.5	601.0	585.1	571.5	556.4	540.5	522.8	499.5	475.5	450.5	427.2
-77.5°	541.8	528.2	514.9	505.1	495.0	484.4	470.7	450.8	432.2	412.8	394.5
-80°	485.6	473.9	462.7	455.8	448.4	439.5	429.0	413.5	398.0	381.3	365.0
-82.5°	442.2	431.8	421.6	415.1	408.0	399.5	390.3	377.3	364.0	349.5	335.2
-85°	400.3	392.1	383.8	377.2	370.5	362.5	354.1	342.7	331.2	318.1	304.9
-87.5°	363.5	356.2	348.9	343.7	338.4	330.5	322.5	312.6	302.5	291.0	279.5
-90°	3.4	3.4	3.4	4.0	4.6	4.6	4.6	5.2	5.7	6.3	6.9





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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°	251.3	241.6	232.4	223.2	215.8	208.4	200.4	192.3	179.2	166.0	147.7
87.5°	7.3	7.6	8.2	8.7	8.6	8.6	9.1	9.7	9.8	10.0	10.4
85°	7.9	8.4	8.7	9.2	9.3	9.2	9.7	10.1	10.5	10.7	11.1
82.5°	8.7	9.1	9.1	9.3	9.9	10.3	10.4	10.6	11.1	11.5	11.8
80°	8.7	9.3	9.5	9.7	10.5	11.4	11.1	11.2	11.8	12.3	12.5
77.5°	9.2	9.5	9.9	10.3	10.9	11.5	11.6	11.8	12.6	13.1	13.2
75°	10.0	10.2	10.2	10.6	11.2	11.6	12.0	12.4	13.2	13.9	13.9
72.5°	10.8	10.8	10.5	10.9	11.8	12.3	12.6	13.0	13.8	14.5	14.7
70°	12.1	11.6	11.2	11.6	12.4	13.2	13.7	14.1	14.3	15.1	15.5
67.5°	13.7	13.0	12.3	12.6	13.2	14.3	14.8	15.3	15.6	15.9	16.4
65°	18.9	16.5	13.7	14.4	14.6	15.6	16.4	17.0	17.0	17.4	17.4
62.5°	26.6	22.4	19.9	17.6	17.2	18.7	18.4	19.8	18.8	19.1	18.9
60°	36.3	29.9	26.8	24.4	22.8	22.7	23.4	23.0	22.7	20.9	20.7
57.5°	45.3	36.8	35.9	32.5	31.5	29.7	30.0	29.3	27.5	25.7	22.6
55°	53.7	46.3	46.4	43.9	42.9	39.5	39.2	37.7	34.1	31.9	25.0
52.5°	62.2	59.5	58.7	59.5	58.7	52.6	52.0	47.1	44.4	38.8	31.5
50°	75.5	78.0	75.2	79.6	77.2	73.4	66.0	60.9	55.4	47.1	38.5
47.5°	109.6	111.4	102.9	106.2	102.2	96.8	86.9	76.3	67.0	57.8	45.7
45°	190.4	163.8	153.5	143.6	134.7	127.4	111.7	92.6	81.9	68.8	53.0
42.5°	301.3	264.9	236.2	186.9	183.2	163.0	139.4	117.2	97.4	80.1	61.9
40°	475.0	407.5	345.0	290.2	243.6	202.4	176.3	144.6	113.4	92.6	72.0
37.5°	660.0	574.4	492.3	408.1	323.7	266.2	217.0	173.5	132.7	107.1	82.3
35°	824.7	748.5	635.1	537.2	440.2	332.9	260.8	206.9	158.8	122.0	92.7
32.5°	966.2	893.1	769.8	660.9	534.8	401.3	315.9	244.9	185.4	137.4	103.7
30°	1079.8	996.7	893.2	759.2	613.5	478.6	373.5	282.2	212.4	153.0	115.3
27.5°	1190.7	1096.5	1002.1	849.2	686.8	545.0	421.4	318.7	239.7	170.5	127.9
25°	1323.4	1200.8	1096.9	947.2	758.7	598.5	464.4	354.5	269.1	190.7	140.0
22.5°	1489.1	1303.4	1193.0	1050.2	840.8	651.4	506.3	392.3	294.4	209.9	151.6
20°	1633.8	1394.2	1285.1	1145.9	929.8	718.8	549.7	424.0	318.3	227.8	162.7
17.5°	1786.4	1489.5	1344.2	1213.9	1016.5	786.9	595.1	453.9	340.8	244.6	173.1
15°	1991.3	1592.3	1398.2	1272.6	1090.6	852.2	639.4	482.2	361.7	260.1	183.3
12.5°	2159.6	1688.1	1451.6	1318.7	1148.1	911.5	681.9	508.8	381.0	275.6	193.4
10°	2321.8	1790.3	1509.5	1362.2	1196.5	964.6	721.9	536.9	403.8	291.1	202.8
7.5°	2500.3	1886.7	1565.5	1403.8	1237.3	1008.9	763.1	570.5	425.8	305.4	211.6
5°	2644.6	1972.2	1623.1	1450.2	1276.6	1042.9	800.3	602.0	446.2	318.4	219.6
2.5°	2686.2	2043.7	1679.2	1494.0	1310.0	1069.7	832.9	631.1	464.6	330.0	227.0
0°	2697.2	2101.9	1729.8	1532.9	1337.1	1089.9	860.9	657.1	480.8	340.0	233.5
-2.5°	2754.3	2148.8	1775.0	1588.8	1385.5	1116.0	876.7	670.5	494.4	351.6	243.0
-5°	2786.0	2181.8	1815.1	1638.3	1425.3	1135.5	887.8	680.5	505.5	361.5	251.6
-7.5°	2803.9	2205.7	1851.5	1679.5	1454.5	1147.8	894.0	686.9	513.8	369.6	259.3
-10°	2795.3	2217.2	1882.8	1702.6	1468.2	1159.5	897.3	690.0	519.4	375.7	265.9
-12.5°	2808.1	2219.9	1907.7	1719.8	1473.1	1170.3	908.1	694.8	522.4	379.9	271.5
-15°	2808.5	2247.0	1948.0	1733.9	1470.4	1173.1	912.3	697.3	523.2	382.2	276.1
-17.5°	2744.8	2249.2	1985.2	1754.3	1462.0	1167.8	909.5	694.4	521.0	382.7	280.0
-20°	2726.1	2267.9	2006.5	1764.4	1443.7	1155.7	899.6	685.8	515.7	381.3	283.3



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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°	2700.6	2308.7	2030.7	1742.2	1417.5	1137.0	885.2	672.1	507.1	377.9	285.5
-25°	2621.3	2334.8	2042.0	1716.5	1389.4	1116.2	868.1	660.1	495.4	372.5	286.8
-27.5°	2574.7	2322.3	2035.2	1673.9	1359.5	1086.7	850.1	651.2	487.5	365.2	287.0
-30°	2546.3	2284.0	1974.9	1618.8	1315.5	1051.4	827.4	637.5	481.2	362.1	286.1
-32.5°	2480.6	2238.0	1884.0	1556.0	1266.5	1010.0	799.5	618.5	471.5	361.8	285.5
-35°	2381.8	2122.7	1776.3	1476.8	1212.1	973.3	768.1	594.2	458.6	359.8	284.4
-37.5°	2266.7	1960.9	1678.1	1392.9	1141.9	928.1	736.1	572.1	442.3	355.9	282.6
-40°	2086.4	1802.8	1546.1	1304.3	1072.2	871.9	698.6	550.8	432.4	350.3	279.7
-42.5°	1898.3	1646.6	1415.8	1198.8	997.6	818.6	657.7	525.8	424.3	344.7	275.6
-45°	1719.0	1489.5	1284.1	1097.3	918.1	761.0	624.7	499.7	413.8	338.6	271.6
-47.5°	1538.9	1342.8	1159.7	990.6	848.5	703.6	584.7	485.0	401.1	331.0	268.4
-50°	1374.4	1199.5	1038.6	895.1	766.9	655.5	546.5	467.7	389.7	321.4	264.2
-52.5°	1218.1	1063.2	925.2	799.8	698.7	603.8	520.4	446.8	376.2	313.2	259.1
-55°	1070.5	936.1	816.3	717.7	632.1	563.9	491.7	425.8	360.6	305.2	253.5
-57.5°	936.5	814.4	726.4	644.1	578.3	523.6	463.7	402.9	348.3	296.1	250.6
-60°	808.2	723.3	645.4	585.3	532.2	484.4	435.4	381.0	336.2	286.9	246.6
-62.5°	706.8	637.4	584.8	533.8	488.0	446.9	407.0	363.6	322.2	281.0	241.8
-65°	623.6	575.2	527.1	486.0	445.6	411.7	384.2	345.0	311.3	274.4	236.2
-67.5°	555.6	515.6	475.9	438.8	410.4	385.4	359.6	330.6	301.0	267.0	229.4
-70°	494.4	458.8	430.1	405.6	382.2	360.0	341.8	317.7	290.0	258.0	222.0
-72.5°	444.0	420.5	396.6	374.6	358.3	341.7	324.9	304.0	277.6	248.2	214.0
-75°	406.0	387.5	369.7	353.2	338.2	323.1	307.7	289.4	264.6	237.8	204.7
-77.5°	378.2	362.1	346.4	331.2	317.5	303.7	290.0	274.3	250.7	225.5	194.5
-80°	350.5	336.1	322.1	308.5	296.2	283.9	271.1	256.8	234.8	212.5	183.8
-82.5°	322.5	309.7	297.1	284.5	273.1	261.5	250.2	238.1	218.5	198.9	173.8
-85°	293.6	282.2	270.8	259.3	249.2	239.0	230.2	220.9	204.6	188.1	165.4
-87.5°	269.7	259.9	250.1	240.2	232.0	223.8	215.4	206.7	192.0	177.2	156.7
-90°	6.9	6.9	7.5	8.0	8.0	8.0	8.6	9.2	9.2	9.2	9.8



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	129.4	107.0	84.7	60.6	36.6	24.6	12.6
87.5°	10.9	10.8	10.7	10.7	10.6	11.7	12.6
85°	11.5	11.3	11.1	11.0	10.9	12.0	12.6
82.5°	12.1	11.8	11.5	11.4	11.2	12.2	12.6
80°	12.7	12.3	11.9	11.8	11.5	12.5	12.6
77.5°	13.3	12.9	12.3	12.2	11.9	12.7	12.6
75°	14.0	13.6	12.8	12.6	12.2	13.0	12.6
72.5°	14.6	14.4	13.6	12.9	12.6	13.2	12.6
70°	15.4	15.2	14.4	13.4	12.9	13.5	12.6
67.5°	16.4	16.1	15.3	14.0	13.3	13.8	12.6
65°	17.4	17.0	16.1	14.7	13.7	14.1	12.6
62.5°	18.5	18.0	16.9	15.4	14.2	14.3	12.6
60°	19.6	18.9	17.8	16.1	14.6	14.6	12.6
57.5°	21.7	19.9	18.9	16.7	15.4	14.9	12.6
55°	24.2	20.9	20.2	17.4	16.2	15.2	12.6
52.5°	27.0	22.2	21.5	18.1	17.0	15.4	12.6
50°	29.9	25.4	22.9	18.7	17.9	15.7	12.6
47.5°	33.6	28.7	24.5	19.5	18.8	16.0	12.6
45°	39.9	32.2	26.1	20.8	19.8	16.3	12.6
42.5°	46.2	35.9	27.8	22.1	20.8	16.6	12.6
40°	53.0	39.7	30.2	24.0	21.8	16.9	12.6
37.5°	60.3	43.7	33.3	26.3	22.9	17.1	12.6
35°	67.6	49.0	36.3	28.6	24.1	17.4	12.6
32.5°	75.5	54.8	39.4	31.0	25.2	17.7	12.6
30°	84.7	60.6	42.5	33.4	26.4	18.0	12.6
27.5°	93.7	66.3	46.7	35.9	27.6	18.2	12.6
25°	102.5	72.0	50.9	38.4	28.8	18.5	12.6
22.5°	111.1	77.7	55.1	40.9	30.0	18.7	12.6
20°	119.3	83.9	59.2	43.4	31.2	19.0	12.6
17.5°	127.5	89.9	63.1	45.9	32.5	19.2	12.6
15°	135.5	95.6	67.0	48.3	33.7	19.5	12.6
12.5°	143.0	101.0	70.7	50.8	34.8	19.7	12.6
10°	150.0	106.2	74.3	53.1	36.0	19.9	12.6
7.5°	156.6	111.0	77.7	55.4	37.1	20.1	12.6
5°	162.6	115.5	81.0	57.7	38.2	20.3	12.6
2.5°	168.0	119.7	84.1	59.8	39.2	20.4	12.6
0°	172.9	123.6	87.0	61.8	40.1	20.6	12.6
-2.5°	180.3	129.3	91.0	64.5	41.8	21.4	12.6
-5°	187.0	134.5	94.9	67.1	43.4	22.2	12.6
-7.5°	193.1	139.4	98.5	69.6	45.0	22.9	12.6
-10°	198.6	143.8	101.8	71.9	46.5	23.6	12.6
-12.5°	203.3	147.8	104.9	74.0	47.8	24.3	12.6
-15°	207.2	151.2	107.7	76.0	49.1	25.0	12.6
-17.5°	210.4	154.2	110.2	77.8	50.3	25.6	12.6
-20°	213.3	156.6	112.5	79.5	51.3	26.2	12.6



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 CATALOG NUMBER: EPH-LS-08-0680N-57-80-5S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	216.3	158.4	114.4	81.0	52.3	26.8	12.6
-25°	218.4	160.6	116.0	82.2	53.1	27.3	12.6
-27.5°	219.7	162.7	117.3	83.3	53.8	27.8	12.6
-30°	220.1	164.3	118.3	84.2	54.4	28.3	12.6
-32.5°	219.7	165.4	120.3	85.0	54.9	28.7	12.6
-35°	219.7	165.9	122.0	85.5	55.3	29.0	12.6
-37.5°	219.7	166.4	123.3	85.8	55.6	29.3	12.6
-40°	219.0	167.7	124.4	85.9	55.7	29.5	12.6
-42.5°	217.8	168.5	125.2	86.1	55.7	29.7	12.6
-45°	215.9	168.9	125.9	86.6	55.6	29.9	12.6
-47.5°	213.2	168.9	126.1	86.8	55.3	30.0	12.6
-50°	212.2	168.5	126.0	86.8	55.0	30.0	12.6
-52.5°	211.1	167.6	125.4	86.7	54.5	30.0	12.6
-55°	209.4	166.1	124.4	86.3	53.9	30.0	12.6
-57.5°	207.1	164.1	123.0	85.7	53.1	29.9	12.6
-60°	204.2	161.6	121.2	84.8	52.3	29.7	12.6
-62.5°	200.4	158.7	119.5	83.7	51.6	29.5	12.6
-65°	196.0	155.3	117.5	82.3	50.8	29.3	12.6
-67.5°	191.0	151.5	115.1	80.7	49.8	29.0	12.6
-70°	185.5	147.5	112.4	79.0	48.7	28.6	12.6
-72.5°	179.0	142.9	109.4	77.2	47.5	28.3	12.6
-75°	171.8	137.9	106.2	75.4	46.2	27.8	12.6
-77.5°	164.1	132.4	103.1	73.4	44.8	27.4	12.6
-80°	155.8	127.5	99.9	71.1	43.3	26.9	12.6
-82.5°	149.5	122.8	96.4	68.7	41.7	26.4	12.6
-85°	143.1	117.8	92.7	66.2	40.1	25.8	12.6
-87.5°	136.4	112.5	88.8	63.5	38.4	25.2	12.6
-90°	10.3	10.3	10.3	10.3	10.3	11.5	12.6

(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

