

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: P731425 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-7F-VHE**

Issue Date: 11/16/2023

**Test Information**

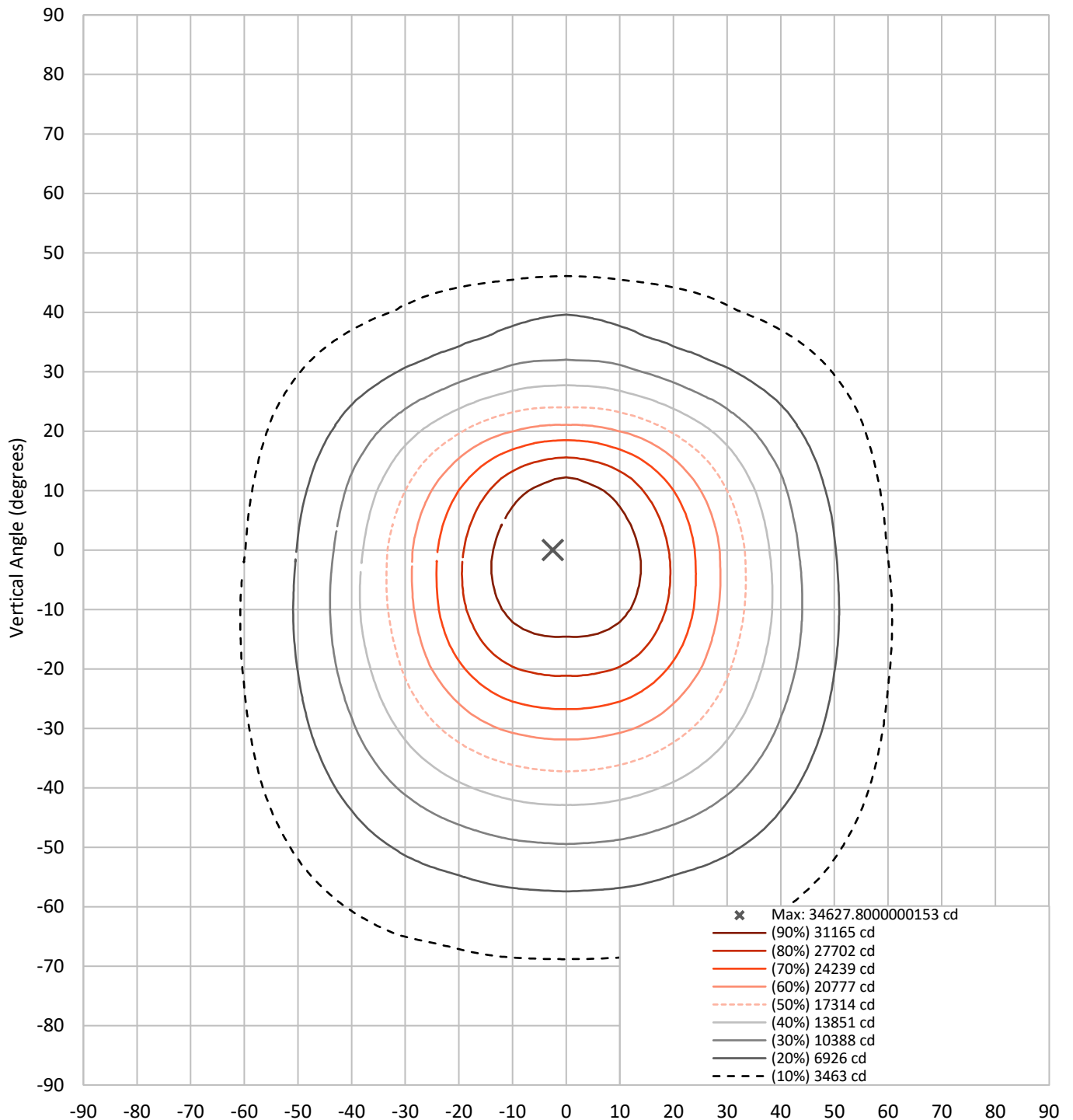
Test Method: LM-79-08  
Report Number: P731425 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-57-70-7F-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 7F BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	46067.7 lumens	Max Intensity:	34627.8 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	133.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	66.6°H x 61.2°V	Field Angle (10%):	119.6°H x 114.9°V
Beam Lumens:	25012.5 lumens	Field Lumens:	43169.6 lumens
Beam Efficiency:	54.3%	Field Efficiency:	93.7%
Input Watts (W):	345.8		
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





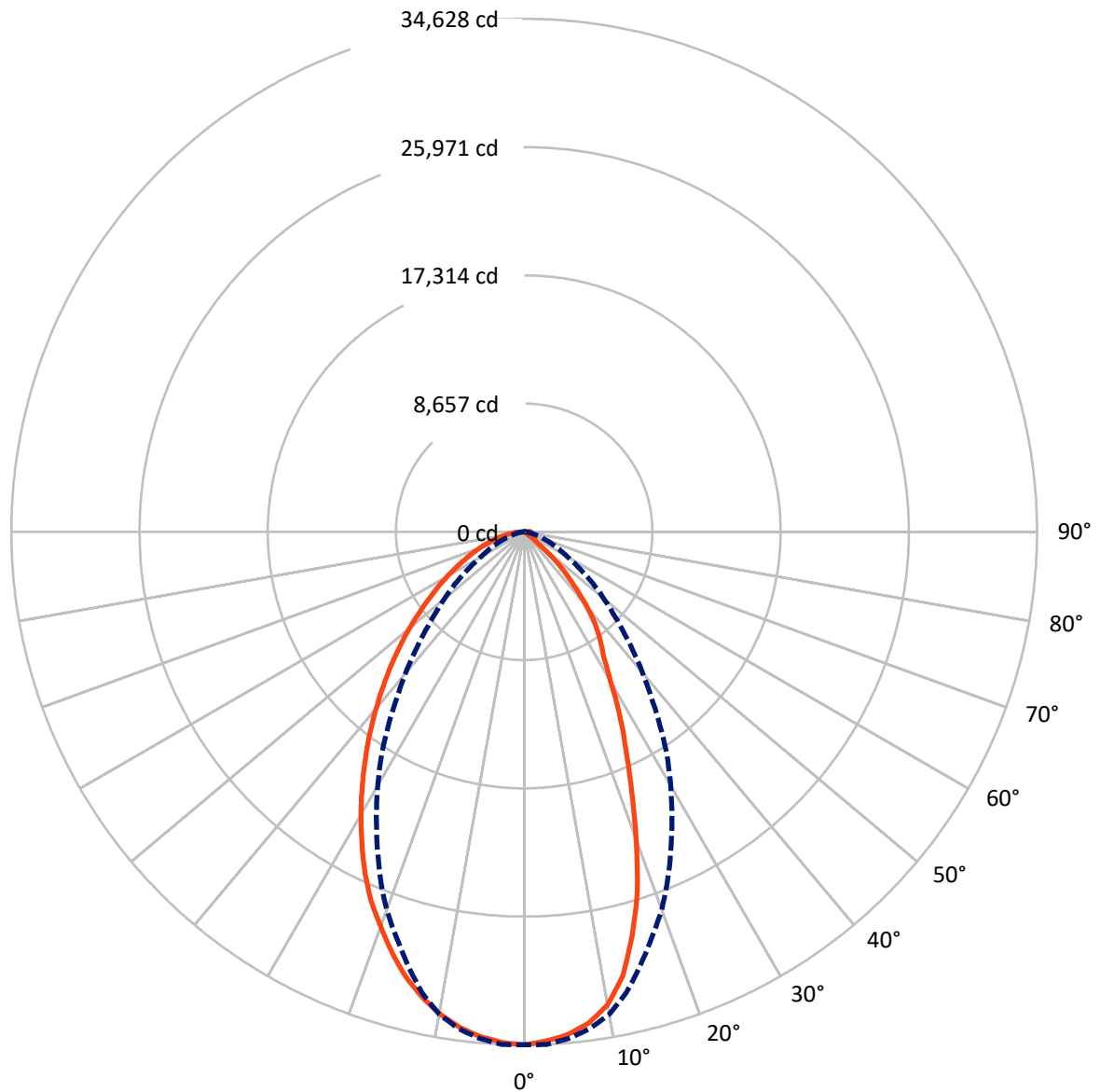
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### Lumen Table

90																			
80	0.8	3.8		8.5		10.7		11.7		10.7		8.5		3.8		0.8			
70																			
60	2.7	1.9	2.6	3.0	2.3	1.4	0.9	0.8	0.8	0.9	1.4	2.3	3.0	2.6	1.9	2.7			
50		3.8	4.9	5.0	5.5	7.2	9.9	11.1	11.1	9.9	7.2	5.5	5.0	4.9	3.8				
40	7.1	7.4	13.9	27.5	48.1	74.4	99.6	117.4	117.4	99.6	74.4	48.1	27.5	13.9	7.4	7.1			
30		13.6	34.5	70.8	117.1	168.4	220.7	266.4	266.4	220.7	168.4	117.1	70.8	34.5	13.6				
20	12.6	20.1	55.4	117.2	205.3	312.4	422.7	493.5	493.5	422.7	312.4	205.3	117.2	55.4	20.1	12.6			
10		25.5	73.0	164.3	308.2	497.1	694.2	826.9	826.9	694.2	497.1	308.2	164.3	73.0	25.5				
0	16.0	29.7	85.7	197.1	380.1	619.4	854.4	1008.1	1008.1	854.4	619.4	380.1	197.1	85.7	29.7	16.0			
-10		32.3	93.2	212.4	405.5	650.1	888.7	1021.0	1021.0	888.7	650.1	405.5	212.4	93.2	32.3				
-20	16.8	33.0	93.4	210.0	388.7	613.4	821.4	927.7	927.7	821.4	613.4	388.7	210.0	93.4	33.0	16.8			
-30		31.5	86.2	188.3	339.8	518.5	678.1	760.0	760.0	678.1	518.5	339.8	188.3	86.2	31.5				
-40	14.0	28.1	74.4	155.9	270.6	397.5	503.6	561.6	561.6	503.6	397.5	270.6	155.9	74.4	28.1	14.0			
-50		23.4	59.4	118.5	197.1	277.6	343.8	381.5	381.5	343.8	277.6	197.1	118.5	59.4	23.4				
-60	9.0	18.1	43.6	82.4	130.9	177.1	215.7	237.5	237.5	215.7	177.1	130.9	82.4	43.6	18.1	9.0			
-70		12.4	28.5	51.6	79.0	103.1	124.2	134.9	134.9	124.2	103.1	79.0	51.6	28.5	12.4				
-80	4.0	33.2		92.9		151.6		176.7		151.6		92.9		33.2		4.0			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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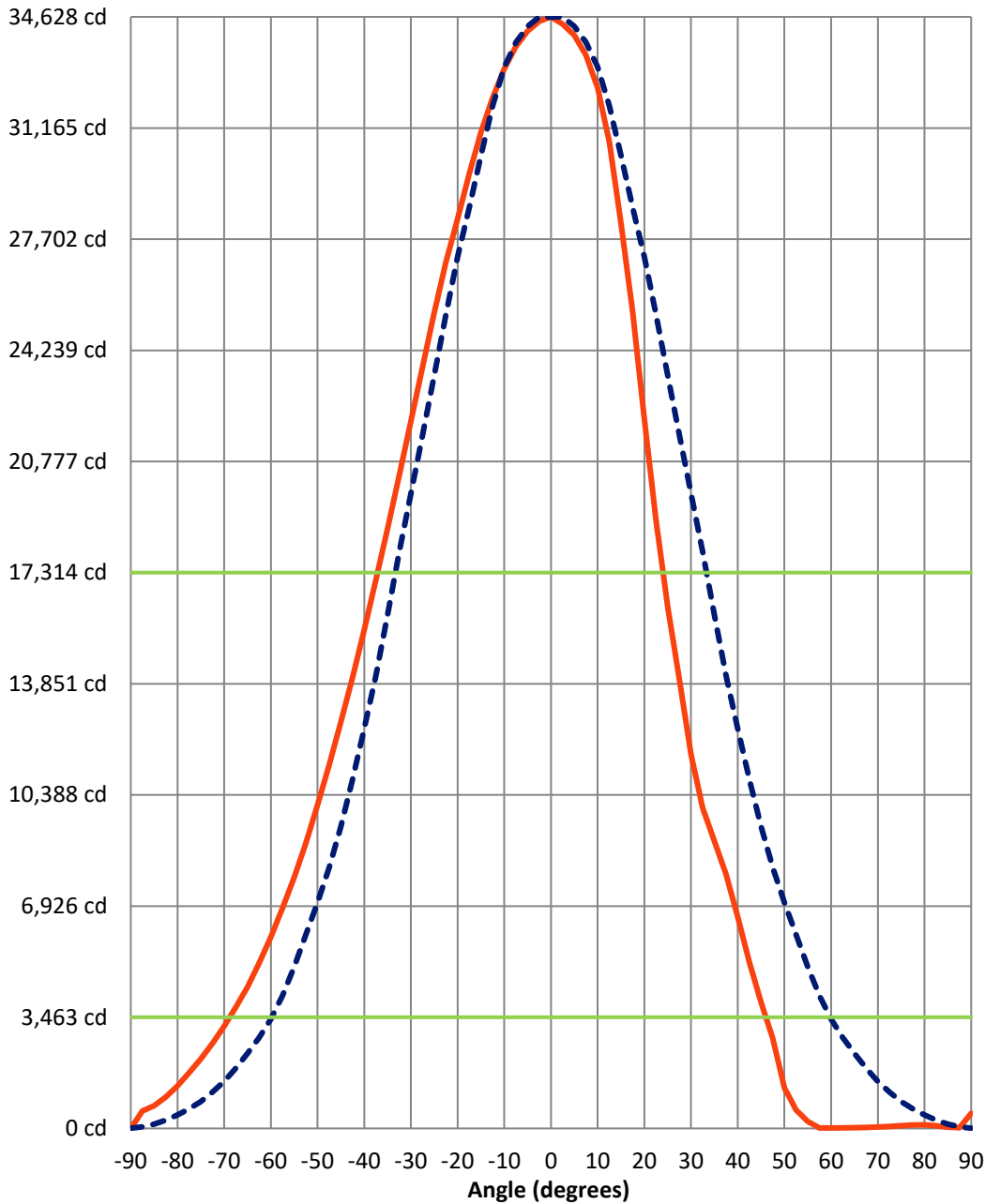
### Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg      - - - Horizontal Distribution Through 0-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 66.6°  
 V Angle: 61.2°  
 Lumens: 25012.5  
 Efficiency: 54.3%

**Field:**  
 H Angle: 119.6°  
 V Angle: 114.9°  
 Lumens: 43169.6  
 Efficiency: 93.7%

**Spill:**  
 Lumens: 2898.1  
 Efficiency: 6.3%

— 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°	7.5	26.4	45.2	70.0	94.8	119.5	144.3	162.4	180.4	198.5	216.5
87.5°	7.5	9.6	10.9	11.9	12.6	13.2	13.6	13.6	13.4	13.1	12.5
85°	7.5	11.1	13.3	15.1	16.6	17.8	18.7	18.9	18.8	18.4	17.6
82.5°	7.5	12.5	15.6	18.4	20.7	22.4	23.7	24.2	24.6	26.4	27.9
80°	7.5	14.0	18.0	21.6	24.7	27.0	29.3	33.0	36.3	39.0	41.1
77.5°	7.5	15.5	20.4	24.9	28.7	33.5	39.0	43.7	47.9	51.5	53.2
75°	7.5	17.0	22.7	28.1	33.7	43.5	48.9	54.3	59.8	63.5	61.7
72.5°	7.5	18.5	25.1	31.3	43.0	53.5	59.1	66.2	74.2	75.9	71.2
70°	7.5	20.0	27.5	35.5	52.4	63.8	70.3	82.2	89.3	89.4	91.4
67.5°	7.5	21.4	30.0	43.4	61.9	74.2	87.5	98.7	105.4	114.6	115.3
65°	7.5	22.9	32.4	51.3	71.4	87.8	105.2	115.8	131.8	140.9	142.8
62.5°	7.5	24.3	34.9	59.2	81.0	104.7	123.4	139.6	159.0	169.9	177.1
60°	7.5	25.7	37.3	67.1	90.7	121.9	142.1	166.3	187.1	206.6	213.7
57.5°	7.5	27.1	43.1	75.0	105.4	139.3	167.9	194.1	222.6	245.1	256.4
55°	7.5	28.5	48.8	82.8	120.5	157.1	194.9	223.9	260.9	286.9	304.2
52.5°	7.5	29.9	54.4	90.6	135.6	176.0	222.5	261.3	300.4	336.5	355.6
50°	7.5	31.2	59.9	98.3	150.8	200.2	250.6	300.3	343.6	388.8	420.2
47.5°	7.5	32.5	65.3	106.9	165.9	224.5	280.1	340.3	394.0	443.8	491.6
45°	7.5	33.8	70.5	118.3	181.0	248.9	315.3	381.0	448.6	514.7	568.7
42.5°	7.5	35.1	75.7	129.6	196.1	273.3	350.8	427.1	504.9	589.9	672.3
40°	7.5	36.3	80.7	140.7	213.3	297.8	386.5	477.2	566.2	668.7	787.6
37.5°	7.5	37.5	85.6	151.5	232.2	322.1	422.3	528.0	634.7	753.0	910.9
35°	7.5	38.7	90.3	162.0	250.9	349.4	458.1	579.3	702.6	851.1	1048.6
32.5°	7.5	39.8	94.9	172.1	269.2	377.8	495.8	631.0	769.8	945.3	1169.8
30°	7.5	40.9	99.2	181.8	287.1	405.7	537.7	683.9	836.0	1035.3	1283.4
27.5°	7.5	41.9	103.4	191.1	303.3	433.1	579.1	739.0	905.1	1121.0	1389.3
25°	7.5	42.9	107.4	199.9	318.7	459.8	619.9	792.7	978.0	1208.5	1488.0
22.5°	7.5	43.8	111.2	208.2	333.3	484.4	659.7	844.7	1047.0	1292.9	1591.6
20°	7.5	44.7	114.7	216.0	347.0	504.9	698.5	894.9	1111.8	1370.7	1689.4
17.5°	7.5	45.6	118.0	223.3	359.8	523.8	729.0	943.0	1172.6	1441.8	1781.0
15°	7.5	46.3	121.1	230.0	371.6	541.2	752.6	983.5	1229.1	1506.5	1865.9
12.5°	7.5	47.0	123.9	236.2	382.5	556.9	773.5	1015.1	1278.9	1564.8	1943.8
10°	7.5	47.7	126.4	241.7	392.3	570.9	791.7	1044.4	1323.7	1633.2	2023.2
7.5°	7.5	48.2	128.7	246.6	401.0	583.3	807.1	1071.1	1365.1	1701.0	2113.6
5°	7.5	48.7	130.6	250.9	408.5	593.9	819.7	1094.9	1402.8	1764.9	2196.3
2.5°	7.5	49.2	132.3	254.5	414.9	602.7	829.7	1115.4	1436.3	1823.8	2270.7
0°	7.5	49.5	133.6	257.4	420.1	609.7	836.9	1132.1	1464.9	1876.4	2336.3
-2.5°	7.5	50.5	135.7	261.3	427.0	621.1	857.0	1159.9	1500.6	1913.3	2377.8
-5°	7.5	51.4	137.4	264.5	432.5	630.5	874.2	1183.4	1530.8	1942.8	2409.8
-7.5°	7.5	52.2	138.8	266.9	436.7	637.9	888.2	1202.3	1555.2	1965.1	2432.2
-10°	7.5	52.9	139.8	268.5	439.5	643.1	898.8	1216.5	1573.5	1980.2	2444.9
-12.5°	7.5	53.5	140.5	269.3	440.9	646.1	905.6	1225.7	1585.5	1988.7	2454.9
-15°	7.5	54.0	140.9	269.4	440.7	646.8	908.5	1229.7	1589.6	1992.2	2457.3
-17.5°	7.5	54.5	140.9	268.6	439.0	645.1	907.3	1226.9	1585.1	1987.0	2448.2
-20°	7.5	54.8	140.6	266.9	435.8	641.0	902.3	1217.8	1573.5	1972.8	2427.3



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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°	7.5	55.1	139.9	264.4	431.0	634.4	894.4	1203.9	1554.7	1949.5	2394.4
-25°	7.5	55.2	138.9	261.1	424.5	627.9	883.0	1185.2	1528.7	1916.9	2349.5
-27.5°	7.5	55.2	137.5	256.9	416.5	619.8	868.0	1161.6	1495.3	1877.6	2305.3
-30°	7.5	55.2	135.8	251.9	407.1	609.1	849.6	1133.2	1460.1	1834.1	2250.7
-32.5°	7.5	55.0	133.7	245.9	398.5	595.6	827.7	1106.1	1422.6	1781.8	2185.2
-35°	7.5	54.8	131.3	239.2	388.3	579.4	807.3	1076.8	1379.5	1720.7	2108.8
-37.5°	7.5	54.4	128.6	231.6	376.3	562.1	785.4	1043.4	1331.0	1650.8	2029.5
-40°	7.5	53.9	125.5	223.2	362.6	545.4	760.0	1006.1	1277.2	1585.3	1946.0
-42.5°	7.5	53.4	122.1	214.4	349.8	526.4	731.2	964.9	1226.2	1520.4	1854.7
-45°	7.5	52.7	118.3	205.8	338.4	505.1	698.8	922.8	1174.5	1447.8	1758.0
-47.5°	7.5	51.9	114.3	196.3	325.6	481.6	663.1	880.6	1118.5	1367.5	1666.9
-50°	7.5	51.1	109.9	189.6	311.5	455.9	630.7	834.3	1055.8	1295.6	1566.6
-52.5°	7.5	50.1	105.3	183.3	296.0	428.1	596.6	784.0	992.4	1217.3	1459.7
-55°	7.5	49.1	100.3	176.4	279.4	405.3	559.9	730.9	926.3	1133.1	1363.4
-57.5°	7.5	47.9	95.1	168.8	261.5	382.1	520.6	683.7	855.7	1049.6	1260.4
-60°	7.5	46.7	89.7	160.6	242.9	357.3	480.1	631.9	783.7	962.9	1154.3
-62.5°	7.5	45.4	86.8	151.7	230.0	330.9	447.1	576.8	718.4	871.6	1049.5
-65°	7.5	44.0	83.8	142.3	216.2	303.2	412.2	523.1	649.9	788.4	939.6
-67.5°	7.5	42.5	80.6	132.3	201.5	278.6	375.5	476.9	578.4	704.9	838.0
-70°	7.5	41.0	77.2	121.8	186.0	257.4	337.3	429.0	521.1	618.1	738.0
-72.5°	7.5	39.4	73.7	115.3	169.8	235.2	306.8	379.4	462.3	549.0	639.5
-75°	7.5	37.7	70.0	109.5	153.0	212.0	276.5	337.6	401.7	478.3	558.1
-77.5°	7.5	35.9	66.1	103.5	142.7	188.0	245.1	298.0	352.6	410.1	474.7
-80°	7.5	34.1	62.2	97.2	133.7	171.5	212.7	257.3	303.7	352.4	403.3
-82.5°	7.5	32.2	58.1	90.7	124.4	159.0	194.7	223.3	253.8	293.4	334.7
-85°	7.5	30.3	53.9	84.0	114.7	146.2	178.3	203.3	228.4	253.8	279.5
-87.5°	7.5	28.4	49.6	77.0	104.9	133.0	161.4	183.0	204.6	226.3	248.2
-90°	7.5	8.1	8.6	8.6	8.6	8.6	8.6	8.3	8.1	7.8	7.5





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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°	232.4	248.3	264.2	280.1	295.7	311.3	326.9	342.5	357.1	371.6	386.2
87.5°	12.9	13.2	13.5	13.7	13.2	12.5	11.8	11.0	11.9	12.9	14.0
85°	18.2	18.8	20.4	21.6	22.5	23.6	25.0	26.7	29.9	33.0	36.1
82.5°	30.3	32.3	33.8	34.7	37.7	41.4	45.4	49.1	52.6	56.0	59.3
80°	43.8	45.9	46.3	46.8	50.8	55.7	60.8	66.2	70.6	74.5	78.3
77.5°	53.7	54.9	56.3	57.9	63.0	70.1	77.2	84.3	89.6	93.8	97.6
75°	61.4	63.7	68.8	72.0	77.7	85.9	94.3	102.3	107.5	110.4	112.4
72.5°	74.0	81.5	86.0	87.8	93.3	103.0	111.8	119.6	123.7	123.1	120.6
70°	93.4	100.3	106.3	108.5	110.9	120.4	127.5	133.1	135.6	130.7	121.0
67.5°	114.3	124.9	130.4	130.7	127.3	135.5	141.9	141.1	136.8	126.2	113.5
65°	141.2	151.3	156.1	154.2	145.0	146.9	146.4	142.6	132.8	118.1	102.9
62.5°	171.3	180.3	184.2	179.1	162.3	155.2	151.1	141.2	126.2	111.9	97.5
60°	209.5	211.6	214.0	204.9	183.9	164.0	156.2	146.4	130.3	110.7	98.8
57.5°	252.5	245.6	246.7	236.5	212.3	176.8	173.3	160.8	147.3	121.3	109.1
55°	302.0	283.1	286.1	276.8	254.5	214.9	201.4	199.6	180.6	160.2	137.7
52.5°	361.4	335.7	335.1	333.7	321.6	287.5	256.6	278.0	290.0	267.3	281.8
50°	428.2	415.4	396.1	418.5	425.6	407.5	380.4	440.2	512.3	545.3	544.5
47.5°	516.8	509.3	492.5	533.2	583.9	630.5	641.6	749.7	858.9	979.6	993.9
45°	621.2	640.4	630.9	717.1	825.9	951.0	1044.0	1148.8	1397.3	1541.4	1754.9
42.5°	737.1	793.0	844.0	925.5	1182.0	1341.3	1481.6	1744.7	1991.9	2200.8	2421.4
40°	886.2	959.8	1071.2	1292.9	1569.5	1753.9	1995.2	2295.1	2545.4	2781.3	3007.2
37.5°	1047.9	1170.9	1321.7	1639.6	1954.3	2185.3	2480.8	2778.2	3062.8	3327.5	3643.3
35°	1218.8	1382.6	1620.3	1952.3	2282.6	2604.3	2929.5	3260.8	3585.6	3948.3	4303.4
32.5°	1404.8	1594.6	1894.6	2247.2	2616.9	2990.6	3368.5	3755.2	4168.0	4591.0	4967.8
30°	1572.7	1830.9	2150.1	2532.5	2949.7	3379.0	3819.9	4265.0	4771.8	5272.5	5724.5
27.5°	1700.9	2047.2	2403.7	2826.4	3283.5	3762.2	4273.1	4824.7	5414.7	5988.6	6525.1
25°	1823.9	2213.6	2646.9	3120.2	3628.0	4166.2	4737.7	5355.1	6079.2	6751.6	7420.9
22.5°	1952.8	2381.4	2848.8	3406.5	3963.3	4575.8	5210.0	5920.6	6720.7	7515.6	8329.0
20°	2089.9	2554.9	3048.2	3636.3	4277.0	4979.4	5654.4	6481.5	7371.6	8295.4	9287.4
17.5°	2223.5	2714.5	3241.4	3861.3	4555.7	5342.4	6083.0	7024.5	8010.8	9067.4	10189.5
15°	2352.3	2859.8	3417.7	4068.1	4825.3	5660.5	6526.6	7558.2	8661.3	9827.8	11006.1
12.5°	2474.7	2991.1	3576.6	4255.9	5077.0	5969.5	6923.6	8008.6	9216.8	10506.2	11790.6
10°	2589.2	3108.3	3717.8	4423.7	5307.9	6264.2	7277.0	8411.2	9667.4	10995.9	12428.5
7.5°	2675.9	3205.5	3842.2	4570.6	5514.8	6538.8	7586.3	8764.0	10048.3	11431.9	12971.9
5°	2742.3	3284.6	3957.4	4740.1	5713.7	6766.1	7840.7	9064.8	10360.4	11807.1	13441.1
2.5°	2792.8	3351.4	4056.0	4897.7	5891.8	6920.9	8006.7	9262.2	10641.3	12157.4	13822.4
0°	2829.6	3404.8	4136.2	5032.4	6036.3	7034.8	8129.2	9405.6	10869.4	12453.9	14104.0
-2.5°	2892.2	3499.5	4248.3	5139.2	6126.5	7146.3	8287.0	9605.2	11085.8	12640.9	14346.8
-5°	2942.3	3577.4	4338.9	5219.5	6185.2	7219.4	8395.8	9744.0	11227.5	12766.9	14472.1
-7.5°	2978.6	3636.3	4407.0	5272.7	6224.4	7278.3	8471.7	9813.1	11280.5	12842.0	14491.8
-10°	3000.0	3664.2	4428.4	5288.5	6245.6	7310.1	8500.9	9823.2	11264.6	12824.3	14438.1
-12.5°	3008.1	3663.6	4421.8	5275.7	6229.3	7294.9	8477.8	9775.3	11181.5	12710.4	14301.2
-15°	3002.8	3644.8	4391.1	5233.8	6174.5	7231.0	8401.9	9670.4	11027.3	12478.2	14024.3
-17.5°	2983.9	3607.8	4335.8	5162.7	6080.2	7117.0	8266.7	9476.6	10805.9	12210.2	13672.4
-20°	2951.7	3552.6	4255.8	5062.3	5951.4	6967.2	8075.6	9246.9	10523.8	11890.3	13278.2



REPORT NUMBER: P731425 (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°	2906.0	3479.1	4162.4	4949.2	5827.9	6797.1	7847.5	8970.5	10164.4	11508.6	12831.3
-25°	2853.6	3414.2	4064.6	4826.0	5671.7	6597.7	7580.4	8654.2	9781.0	11039.1	12319.4
-27.5°	2793.7	3335.4	3960.4	4678.3	5480.1	6376.2	7315.7	8323.7	9390.6	10521.8	11749.4
-30°	2719.8	3245.8	3835.6	4516.7	5286.0	6135.0	7038.4	7949.6	8960.2	10026.8	11152.0
-32.5°	2632.2	3137.6	3711.1	4359.8	5074.7	5855.9	6714.8	7581.3	8513.7	9500.9	10543.6
-35°	2538.3	3027.8	3572.4	4181.0	4842.9	5575.0	6359.5	7183.7	8041.2	8968.8	9886.1
-37.5°	2443.9	2902.1	3410.4	3991.8	4625.7	5276.1	5981.8	6765.8	7569.4	8389.5	9232.0
-40°	2337.7	2761.1	3249.2	3791.3	4365.3	4968.8	5630.0	6329.8	7076.9	7816.8	8571.9
-42.5°	2222.0	2630.9	3078.5	3562.1	4099.4	4660.9	5254.1	5909.1	6560.2	7232.2	7929.4
-45°	2112.2	2488.6	2896.7	3346.2	3821.1	4340.4	4894.1	5466.5	6052.7	6646.5	7281.2
-47.5°	1994.1	2341.0	2725.3	3114.9	3551.3	4021.3	4519.1	5034.3	5542.0	6086.5	6629.0
-50°	1871.2	2202.4	2533.5	2895.6	3283.2	3705.0	4156.6	4600.8	5065.1	5536.5	6025.5
-52.5°	1747.9	2055.6	2355.5	2672.4	3023.0	3397.6	3791.1	4188.0	4600.5	5015.5	5434.7
-55°	1614.8	1900.3	2172.4	2458.7	2766.1	3101.7	3434.9	3791.9	4149.6	4529.3	4873.7
-57.5°	1488.9	1732.3	1984.3	2245.9	2521.0	2806.7	3102.5	3401.2	3726.7	4054.2	4349.2
-60°	1364.8	1570.8	1790.8	2030.0	2276.2	2529.2	2774.4	3041.0	3316.3	3584.5	3854.5
-62.5°	1236.0	1418.4	1606.5	1809.5	2033.6	2251.5	2472.8	2697.5	2921.8	3159.8	3388.0
-65°	1109.0	1264.6	1431.3	1607.2	1787.4	1984.4	2178.9	2368.7	2569.1	2763.8	2952.8
-67.5°	976.4	1118.8	1261.6	1408.1	1569.3	1730.1	1891.9	2066.2	2235.4	2394.5	2554.9
-70°	857.8	972.5	1098.9	1228.2	1356.4	1488.3	1632.0	1776.1	1917.5	2053.1	2191.9
-72.5°	740.1	842.9	946.2	1049.7	1161.2	1272.2	1384.4	1497.5	1615.7	1734.0	1849.1
-75°	635.0	712.2	801.9	893.3	980.3	1065.2	1152.0	1248.1	1342.6	1435.5	1527.4
-77.5°	539.3	604.4	671.7	741.0	807.2	878.4	949.9	1021.5	1092.0	1161.0	1228.7
-80°	449.3	494.9	549.1	605.3	657.9	709.7	761.6	813.4	865.6	920.2	976.6
-82.5°	371.9	409.1	446.8	484.8	519.8	553.9	589.3	629.7	670.9	712.0	752.5
-85°	301.1	322.5	351.4	380.7	408.6	436.1	463.2	490.0	517.5	544.6	571.2
-87.5°	266.9	285.6	304.1	322.5	340.3	357.9	375.3	392.6	410.3	428.0	445.6
-90°	7.5	7.5	7.5	7.5	7.3	7.0	6.8	6.5	6.2	6.0	5.7



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	400.7	405.3	409.9	414.4	419.0	429.8	440.6	451.3	462.1	464.5	467.0
87.5°	15.1	15.1	15.1	15.1	15.1	17.5	20.0	22.5	25.1	24.8	24.5
85°	39.1	39.7	40.0	40.0	39.8	43.1	46.5	49.7	52.9	50.7	48.3
82.5°	62.4	63.5	64.6	65.7	66.9	70.3	73.7	76.9	79.9	80.9	81.9
80°	81.7	83.8	85.4	86.6	87.6	90.5	93.6	96.6	99.5	102.5	105.6
77.5°	100.4	101.0	100.7	99.7	98.1	98.6	99.2	99.6	99.6	101.2	103.0
75°	113.3	111.8	107.4	102.3	96.6	93.0	90.5	87.7	84.9	84.4	84.6
72.5°	116.2	110.3	103.0	93.9	85.0	78.8	74.6	70.6	66.7	64.9	63.7
70°	110.0	98.7	88.9	79.2	69.7	62.7	58.5	54.7	51.2	49.0	47.4
67.5°	99.1	85.1	74.8	64.8	55.6	48.3	44.7	41.3	38.2	36.0	34.3
65°	88.0	73.1	63.2	53.6	44.3	37.1	34.3	31.5	28.8	26.8	25.7
62.5°	81.8	66.2	55.9	47.5	39.0	30.7	27.9	25.0	22.2	20.0	19.1
60°	84.0	66.3	53.8	46.0	37.3	27.7	24.1	21.5	18.6	16.0	15.1
57.5°	97.1	77.9	59.1	56.1	47.3	33.1	34.5	40.1	35.9	24.7	23.5
55°	148.6	143.8	94.1	121.8	141.7	133.5	124.7	165.0	184.7	185.7	203.9
52.5°	295.3	330.1	317.2	332.2	414.2	447.3	442.9	515.1	552.5	547.4	566.9
50°	621.7	693.0	780.8	795.0	932.4	1027.7	1050.7	1134.2	1227.0	1262.5	1302.5
47.5°	1213.3	1380.4	1465.2	1560.9	1719.1	1892.4	2026.6	2146.9	2277.2	2366.3	2473.8
45°	1976.3	2094.5	2242.1	2464.2	2705.6	2931.8	3144.2	3337.8	3465.5	3579.3	3700.1
42.5°	2604.2	2792.8	3040.4	3371.7	3715.2	3947.3	4122.1	4308.7	4508.1	4697.7	4872.5
40°	3247.0	3465.6	3858.3	4233.8	4490.1	4714.2	4953.4	5206.6	5467.3	5716.1	5963.5
37.5°	3935.9	4259.0	4602.9	4931.1	5202.3	5414.2	5742.1	6022.5	6283.8	6654.2	6994.0
35°	4669.0	5020.1	5315.7	5691.0	5994.2	6255.7	6598.7	6951.9	7178.0	7686.1	8126.0
32.5°	5398.3	5807.6	6201.6	6558.0	6934.3	7337.4	7671.2	8155.7	8524.3	9010.3	9488.1
30°	6158.3	6719.3	7211.1	7602.3	8114.8	8635.9	9104.3	9674.9	10218.2	10670.5	11176.8
27.5°	7117.2	7741.0	8340.8	8943.6	9491.1	10141.9	10887.4	11490.9	12186.5	12679.6	13209.2
25°	8134.6	8877.7	9675.5	10452.6	11170.8	12012.6	12857.9	13595.2	14316.1	14884.4	15450.4
22.5°	9240.9	10139.5	11089.0	12067.2	13038.2	13960.4	14867.8	15780.3	16611.3	17392.3	17936.4
20°	10364.4	11362.4	12515.4	13694.0	14812.1	15853.0	16943.4	18097.3	19153.1	20058.3	20728.6
17.5°	11378.0	12629.7	13897.9	15191.0	16451.9	17738.5	19091.3	20448.4	21698.6	22758.7	23648.6
15°	12291.1	13709.3	15177.4	16636.4	18086.4	19567.6	21148.3	22610.6	24011.9	25227.6	26268.0
12.5°	13191.4	14706.2	16279.9	17915.8	19634.8	21238.6	22848.0	24424.7	25893.2	27306.4	28348.7
10°	13988.3	15623.9	17308.7	19061.7	20842.1	22582.0	24278.4	25922.1	27364.9	28699.3	29960.3
7.5°	14637.6	16391.7	18190.0	20033.7	21866.2	23628.0	25355.7	26998.2	28462.7	29830.2	31119.7
5°	15197.7	17058.1	18914.0	20751.3	22595.1	24422.5	26166.9	27786.4	29311.8	30732.9	32025.1
2.5°	15654.7	17594.6	19475.0	21284.6	23120.9	24991.5	26779.9	28344.5	29939.1	31384.4	32656.4
0°	15997.6	17955.9	19776.2	21602.0	23461.1	25352.6	27151.4	28684.2	30307.4	31852.0	33061.7
-2.5°	16185.2	18028.5	19840.4	21672.1	23587.3	25532.9	27329.3	28981.4	30595.3	32043.2	33167.8
-5°	16250.4	18063.6	19869.0	21733.8	23632.4	25547.4	27337.7	28994.1	30544.0	31898.3	32924.0
-7.5°	16206.7	18002.1	19789.4	21635.9	23522.4	25414.6	27176.0	28760.5	30253.0	31535.8	32514.5
-10°	16074.7	17813.3	19601.2	21417.4	23307.9	25176.1	26902.2	28331.7	29756.8	30960.2	31885.7
-12.5°	15856.5	17521.1	19284.4	21060.3	22915.2	24710.9	26319.5	27742.8	29016.2	30235.1	31045.2
-15°	15546.9	17151.9	18837.7	20576.7	22334.0	24071.2	25639.6	27015.3	28195.0	29156.5	30009.6
-17.5°	15158.6	16707.2	18322.7	19989.1	21620.9	23273.6	24727.1	26105.8	27240.5	28096.5	28758.5
-20°	14680.7	16183.6	17728.4	19319.4	20835.6	22241.2	23642.4	24924.4	26046.0	26883.0	27519.2



REPORT NUMBER: P731425 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	14176.3	15594.2	17057.8	18492.3	19873.0	21194.4	22463.4	23640.0	24706.5	25497.9	26106.7
-25°	13602.3	14928.3	16281.6	17577.2	18838.2	20068.4	21218.7	22308.9	23239.9	24009.8	24575.0
-27.5°	12973.7	14208.4	15429.8	16634.7	17804.7	18868.2	19926.6	20910.7	21729.5	22437.4	22938.1
-30°	12286.8	13415.9	14560.6	15690.1	16702.3	17660.3	18600.6	19454.9	20205.3	20827.0	21276.0
-32.5°	11562.3	12593.9	13655.7	14677.0	15564.5	16428.9	17248.9	17997.7	18685.9	19235.2	19640.1
-35°	10813.3	11769.0	12722.6	13605.6	14432.9	15201.7	15908.3	16572.0	17142.2	17642.9	18039.8
-37.5°	10076.7	10937.5	11765.0	12536.0	13300.4	14005.5	14622.6	15205.0	15723.4	16141.0	16489.0
-40°	9354.2	10116.1	10820.6	11506.9	12189.9	12786.8	13347.2	13849.5	14308.2	14707.2	15016.3
-42.5°	8635.9	9292.1	9900.2	10517.8	11108.3	11625.9	12113.9	12549.0	12947.1	13304.6	13604.4
-45°	7915.1	8476.3	9017.5	9560.5	10050.8	10511.8	10935.9	11318.3	11673.9	11975.0	12220.7
-47.5°	7178.8	7676.7	8168.3	8638.8	9045.6	9444.0	9809.1	10152.5	10472.9	10743.7	10960.9
-50°	6475.8	6915.8	7356.1	7745.0	8087.1	8418.8	8727.8	9059.4	9356.0	9602.7	9782.1
-52.5°	5815.8	6213.7	6592.1	6910.7	7199.8	7458.8	7696.2	8004.3	8283.4	8525.7	8684.8
-55°	5214.8	5555.3	5879.7	6142.9	6384.3	6600.3	6815.8	7063.3	7288.7	7490.3	7623.3
-57.5°	4649.0	4937.7	5207.5	5429.1	5630.5	5811.1	6011.1	6218.1	6402.9	6562.0	6669.1
-60°	4112.6	4358.3	4582.2	4764.5	4931.8	5083.8	5274.2	5454.8	5614.6	5744.4	5824.3
-62.5°	3606.6	3827.0	4001.0	4147.6	4281.3	4409.4	4575.8	4731.8	4875.9	4991.0	5058.0
-65°	3143.4	3336.3	3465.7	3581.7	3687.0	3802.4	3943.9	4070.9	4183.4	4268.9	4327.1
-67.5°	2721.0	2873.7	2975.7	3067.9	3158.1	3256.9	3376.9	3487.8	3589.1	3659.5	3703.0
-70°	2327.6	2445.3	2528.0	2606.4	2681.7	2766.4	2864.7	2956.3	3040.9	3095.5	3130.3
-72.5°	1960.6	2050.3	2118.6	2186.1	2246.8	2319.4	2399.6	2474.8	2544.5	2585.6	2612.1
-75°	1618.2	1686.9	1742.9	1794.7	1842.2	1903.3	1968.2	2029.2	2086.0	2117.3	2137.6
-77.5°	1300.7	1353.3	1395.4	1434.0	1469.0	1517.4	1567.4	1614.4	1658.2	1686.1	1708.5
-80°	1031.7	1063.5	1089.4	1113.5	1135.8	1172.0	1208.7	1243.3	1275.7	1293.9	1308.3
-82.5°	792.5	811.8	827.2	840.7	852.4	877.6	902.8	926.6	949.0	960.8	970.8
-85°	597.4	607.8	616.5	624.3	631.1	648.7	666.0	682.8	698.9	702.3	704.7
-87.5°	463.2	468.8	474.2	479.4	484.4	497.4	510.3	523.2	535.9	538.2	540.2
-90°	5.4	5.1	4.9	4.6	4.3	4.0	3.8	3.5	3.2	3.0	2.7



REPORT NUMBER: P731425 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	469.4	471.8	470.2	468.6	470.2	471.8	469.4	467.0	464.5	462.1	451.3
87.5°	24.1	23.6	23.7	23.7	23.7	23.6	24.1	24.5	24.8	25.1	22.5
85°	45.7	43.0	40.9	38.8	40.9	43.0	45.7	48.3	50.7	52.9	49.7
82.5°	82.7	83.5	83.3	82.9	83.3	83.5	82.7	81.9	80.9	79.9	76.9
80°	108.6	111.5	112.4	113.1	112.4	111.5	108.6	105.6	102.5	99.5	96.6
77.5°	104.8	106.6	107.2	107.7	107.2	106.6	104.8	103.0	101.2	99.6	99.6
75°	85.0	85.5	85.2	85.1	85.2	85.5	85.0	84.6	84.4	84.9	87.7
72.5°	62.8	62.0	61.6	61.4	61.6	62.0	62.8	63.7	64.9	66.7	70.6
70°	46.0	44.8	43.8	43.1	43.8	44.8	46.0	47.4	49.0	51.2	54.7
67.5°	32.9	31.8	30.9	30.2	30.9	31.8	32.9	34.3	36.0	38.2	41.3
65°	24.8	24.1	23.3	22.6	23.3	24.1	24.8	25.7	26.8	28.8	31.5
62.5°	18.2	17.6	17.3	17.2	17.3	17.6	18.2	19.1	20.0	22.2	25.0
60°	14.1	13.3	13.0	12.9	13.0	13.3	14.1	15.1	16.0	18.6	21.5
57.5°	21.2	18.1	16.3	15.1	16.3	18.1	21.2	23.5	24.7	35.9	40.1
55°	213.6	214.2	218.5	223.0	218.5	214.2	213.6	203.9	185.7	184.7	165.0
52.5°	581.9	580.0	574.7	564.4	574.7	580.0	581.9	566.9	547.4	552.5	515.1
50°	1326.4	1307.7	1267.1	1209.6	1267.1	1307.7	1326.4	1302.5	1262.5	1227.0	1134.2
47.5°	2618.6	2726.9	2801.9	2835.0	2801.9	2726.9	2618.6	2473.8	2366.3	2277.2	2146.9
45°	3825.9	3890.2	3927.7	3957.4	3927.7	3890.2	3825.9	3700.1	3579.3	3465.5	3337.8
42.5°	5021.4	5123.2	5173.4	5164.9	5173.4	5123.2	5021.4	4872.5	4697.7	4508.1	4308.7
40°	6201.1	6414.3	6589.2	6714.9	6589.2	6414.3	6201.1	5963.5	5716.1	5467.3	5206.6
37.5°	7330.0	7647.4	7915.5	8109.8	7915.5	7647.4	7330.0	6994.0	6654.2	6283.8	6022.5
35°	8485.8	8765.8	8949.5	9029.6	8949.5	8765.8	8485.8	8126.0	7686.1	7178.0	6951.9
32.5°	9792.7	9948.3	9981.3	10064.8	9981.3	9948.3	9792.7	9488.1	9010.3	8524.3	8155.7
30°	11485.2	11646.9	11650.8	11755.9	11650.8	11646.9	11485.2	11176.8	10670.5	10218.2	9674.9
27.5°	13626.8	13899.0	13987.4	14080.3	13987.4	13899.0	13626.8	13209.2	12679.6	12186.5	11490.9
25°	15919.9	16173.7	16255.0	16223.8	16255.0	16173.7	15919.9	15450.4	14884.4	14316.1	13595.2
22.5°	18493.8	18822.9	18942.6	18882.2	18942.6	18822.9	18493.8	17936.4	17392.3	16611.3	15780.3
20°	21374.6	21849.5	22100.5	22213.8	22100.5	21849.5	21374.6	20728.6	20058.3	19153.1	18097.3
17.5°	24406.9	25106.7	25428.0	25522.8	25428.0	25106.7	24406.9	23648.6	22758.7	21698.6	20448.4
15°	27165.4	27776.4	28193.1	28407.3	28193.1	27776.4	27165.4	26268.0	25227.6	24011.9	22610.6
12.5°	29298.3	30077.1	30726.3	31074.3	30726.3	30077.1	29298.3	28348.7	27306.4	25893.2	24424.7
10°	31037.0	31823.3	32413.6	32699.7	32413.6	31823.3	31037.0	29960.3	28699.3	27364.9	25922.1
7.5°	32239.9	32970.7	33428.9	33616.4	33428.9	32970.7	32239.9	31119.7	29830.2	28462.7	26998.2
5°	33017.4	33716.1	34054.8	34176.5	34054.8	33716.1	33017.4	32025.1	30732.9	29311.8	27786.4
2.5°	33577.2	34130.1	34401.3	34418.8	34401.3	34130.1	33577.2	32656.4	31384.4	29939.1	28344.5
0°	33832.9	34330.5	34627.8	34622.4	34627.8	34330.5	33832.9	33061.7	31852.0	30307.4	28684.2
-2.5°	33845.3	34278.2	34489.5	34370.4	34489.5	34278.2	33845.3	33167.8	32043.2	30595.3	28981.4
-5°	33603.9	34027.6	34186.0	34149.6	34186.0	34027.6	33603.9	32924.0	31898.3	30544.0	28994.1
-7.5°	33170.5	33546.4	33708.1	33713.3	33708.1	33546.4	33170.5	32514.5	31535.8	30253.0	28760.5
-10°	32509.6	32823.7	33008.9	32956.1	33008.9	32823.7	32509.6	31885.7	30960.2	29756.8	28331.7
-12.5°	31635.4	31945.4	32102.4	32070.7	32102.4	31945.4	31635.4	31045.2	30235.1	29016.2	27742.8
-15°	30589.6	30884.3	31031.4	31017.2	31031.4	30884.3	30589.6	30009.6	29156.5	28195.0	27015.3
-17.5°	29294.8	29590.2	29740.8	29761.3	29740.8	29590.2	29294.8	28758.5	28096.5	27240.5	26105.8
-20°	27938.0	28198.5	28336.4	28338.4	28336.4	28198.5	27938.0	27519.2	26883.0	26046.0	24924.4



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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°	26531.4	26824.0	26987.6	26962.9	26987.6	26824.0	26531.4	26106.7	25497.9	24706.5	23640.0
-25°	24963.7	25256.9	25416.0	25409.7	25416.0	25256.9	24963.7	24575.0	24009.8	23239.9	22308.9
-27.5°	23290.0	23571.8	23725.4	23744.4	23725.4	23571.8	23290.0	22938.1	22437.4	21729.5	20910.7
-30°	21604.1	21881.9	22032.4	22044.7	22032.4	21881.9	21604.1	21276.0	20827.0	20205.3	19454.9
-32.5°	19952.2	20203.0	20342.0	20356.8	20342.0	20203.0	19952.2	19640.1	19235.2	18685.9	17997.7
-35°	18340.4	18560.8	18685.6	18726.0	18685.6	18560.8	18340.4	18039.8	17642.9	17142.2	16572.0
-37.5°	16771.9	16971.1	17091.6	17165.3	17091.6	16971.1	16771.9	16489.0	16141.0	15723.4	15205.0
-40°	15256.8	15431.3	15527.4	15529.1	15527.4	15431.3	15256.8	15016.3	14707.2	14308.2	13849.5
-42.5°	13826.5	13973.4	14046.9	14048.0	14046.9	13973.4	13826.5	13604.4	13304.6	12947.1	12549.0
-45°	12418.7	12562.4	12664.2	12728.5	12664.2	12562.4	12418.7	12220.7	11975.0	11673.9	11318.3
-47.5°	11126.5	11244.4	11325.2	11369.2	11325.2	11244.4	11126.5	10960.9	10743.7	10472.9	10152.5
-50°	9913.6	10007.9	10076.8	10117.6	10076.8	10007.9	9913.6	9782.1	9602.7	9356.0	9059.4
-52.5°	8792.8	8861.6	8886.3	8870.2	8886.3	8861.6	8792.8	8684.8	8525.7	8283.4	8004.3
-55°	7723.0	7791.5	7818.9	7809.2	7818.9	7791.5	7723.0	7623.3	7490.3	7288.7	7063.3
-57.5°	6753.4	6814.2	6862.8	6892.6	6862.8	6814.2	6753.4	6669.1	6562.0	6402.9	6218.1
-60°	5887.3	5932.2	5962.8	5974.9	5962.8	5932.2	5887.3	5824.3	5744.4	5614.6	5454.8
-62.5°	5104.9	5132.9	5154.6	5163.8	5154.6	5132.9	5104.9	5058.0	4991.0	4875.9	4731.8
-65°	4373.6	4407.7	4403.6	4379.6	4403.6	4407.7	4373.6	4327.1	4268.9	4183.4	4070.9
-67.5°	3735.9	3758.1	3777.2	3787.2	3777.2	3758.1	3735.9	3703.0	3659.5	3589.1	3487.8
-70°	3156.8	3175.0	3181.8	3179.7	3181.8	3175.0	3156.8	3130.3	3095.5	3040.9	2956.3
-72.5°	2632.0	2645.3	2647.9	2643.3	2647.9	2645.3	2632.0	2612.1	2585.6	2544.5	2474.8
-75°	2152.0	2160.8	2165.3	2165.0	2165.3	2160.8	2152.0	2137.6	2117.3	2086.0	2029.2
-77.5°	1727.2	1742.0	1735.7	1724.5	1735.7	1742.0	1727.2	1708.5	1686.1	1658.2	1614.4
-80°	1320.1	1329.2	1324.3	1316.3	1324.3	1329.2	1320.1	1308.3	1293.9	1275.7	1243.3
-82.5°	979.4	986.6	978.4	968.3	978.4	986.6	979.4	970.8	960.8	949.0	926.6
-85°	706.5	707.5	706.8	705.5	706.8	707.5	706.5	704.7	702.3	698.9	682.8
-87.5°	542.0	543.7	542.3	540.7	542.3	543.7	542.0	540.2	538.2	535.9	523.2
-90°	2.5	2.2	2.7	3.2	2.7	2.2	2.5	2.7	3.0	3.2	3.5



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	440.6	429.8	419.0	414.4	409.9	405.3	400.7	386.2	371.6	357.1	342.5
87.5°	20.0	17.5	15.1	15.1	15.1	15.1	15.1	14.0	12.9	11.9	11.0
85°	46.5	43.1	39.8	40.0	40.0	39.7	39.1	36.1	33.0	29.9	26.7
82.5°	73.7	70.3	66.9	65.7	64.6	63.5	62.4	59.3	56.0	52.6	49.1
80°	93.6	90.5	87.6	86.6	85.4	83.8	81.7	78.3	74.5	70.6	66.2
77.5°	99.2	98.6	98.1	99.7	100.7	101.0	100.4	97.6	93.8	89.6	84.3
75°	90.5	93.0	96.6	102.3	107.4	111.8	113.3	112.4	110.4	107.5	102.3
72.5°	74.6	78.8	85.0	93.9	103.0	110.3	116.2	120.6	123.1	123.7	119.6
70°	58.5	62.7	69.7	79.2	88.9	98.7	110.0	121.0	130.7	135.6	133.1
67.5°	44.7	48.3	55.6	64.8	74.8	85.1	99.1	113.5	126.2	136.8	141.1
65°	34.3	37.1	44.3	53.6	63.2	73.1	88.0	102.9	118.1	132.8	142.6
62.5°	27.9	30.7	39.0	47.5	55.9	66.2	81.8	97.5	111.9	126.2	141.2
60°	24.1	27.7	37.3	46.0	53.8	66.3	84.0	98.8	110.7	130.3	146.4
57.5°	34.5	33.1	47.3	56.1	59.1	77.9	97.1	109.1	121.3	147.3	160.8
55°	124.7	133.5	141.7	121.8	94.1	143.8	148.6	137.7	160.2	180.6	199.6
52.5°	442.9	447.3	414.2	332.2	317.2	330.1	295.3	281.8	267.3	290.0	278.0
50°	1050.7	1027.7	932.4	795.0	780.8	693.0	621.7	544.5	545.3	512.3	440.2
47.5°	2026.6	1892.4	1719.1	1560.9	1465.2	1380.4	1213.3	993.9	979.6	858.9	749.7
45°	3144.2	2931.8	2705.6	2464.2	2242.1	2094.5	1976.3	1754.9	1541.4	1397.3	1148.8
42.5°	4122.1	3947.3	3715.2	3371.7	3040.4	2792.8	2604.2	2421.4	2200.8	1991.9	1744.7
40°	4953.4	4714.2	4490.1	4233.8	3858.3	3465.6	3247.0	3007.2	2781.3	2545.4	2295.1
37.5°	5742.1	5414.2	5202.3	4931.1	4602.9	4259.0	3935.9	3643.3	3327.5	3062.8	2778.2
35°	6598.7	6255.7	5994.2	5691.0	5315.7	5020.1	4669.0	4303.4	3948.3	3585.6	3260.8
32.5°	7671.2	7337.4	6934.3	6558.0	6201.6	5807.6	5398.3	4967.8	4591.0	4168.0	3755.2
30°	9104.3	8635.9	8114.8	7602.3	7211.1	6719.3	6158.3	5724.5	5272.5	4771.8	4265.0
27.5°	10887.4	10141.9	9491.1	8943.6	8340.8	7741.0	7117.2	6525.1	5988.6	5414.7	4824.7
25°	12857.9	12012.6	11170.8	10452.6	9675.5	8877.7	8134.6	7420.9	6751.6	6079.2	5355.1
22.5°	14867.8	13960.4	13038.2	12067.2	11089.0	10139.5	9240.9	8329.0	7515.6	6720.7	5920.6
20°	16943.4	15853.0	14812.1	13694.0	12515.4	11362.4	10364.4	9287.4	8295.4	7371.6	6481.5
17.5°	19091.3	17738.5	16451.9	15191.0	13897.9	12629.7	11378.0	10189.5	9067.4	8010.8	7024.5
15°	21148.3	19567.6	18086.4	16636.4	15177.4	13709.3	12291.1	11006.1	9827.8	8661.3	7558.2
12.5°	22848.0	21238.6	19634.8	17915.8	16279.9	14706.2	13191.4	11790.6	10506.2	9216.8	8008.6
10°	24278.4	22582.0	20842.1	19061.7	17308.7	15623.9	13988.3	12428.5	10995.9	9667.4	8411.2
7.5°	25355.7	23628.0	21866.2	20033.7	18190.0	16391.7	14637.6	12971.9	11431.9	10048.3	8764.0
5°	26166.9	24422.5	22595.1	20751.3	18914.0	17058.1	15197.7	13441.1	11807.1	10360.4	9064.8
2.5°	26779.9	24991.5	23120.9	21284.6	19475.0	17594.6	15654.7	13822.4	12157.4	10641.3	9262.2
0°	27151.4	25352.6	23461.1	21602.0	19776.2	17955.9	15997.6	14104.0	12453.9	10869.4	9405.6
-2.5°	27329.3	25532.9	23587.3	21672.1	19840.4	18028.5	16185.2	14346.8	12640.9	11085.8	9605.2
-5°	27337.7	25547.4	23632.4	21733.8	19869.0	18063.6	16250.4	14472.1	12766.9	11227.5	9744.0
-7.5°	27176.0	25414.6	23522.4	21635.9	19789.4	18002.1	16206.7	14491.8	12842.0	11280.5	9813.1
-10°	26902.2	25176.1	23307.9	21417.4	19601.2	17813.3	16074.7	14438.1	12824.3	11264.6	9823.2
-12.5°	26319.5	24710.9	22915.2	21060.3	19284.4	17521.1	15856.5	14301.2	12710.4	11181.5	9775.3
-15°	25639.6	24071.2	22334.0	20576.7	18837.7	17151.9	15546.9	14024.3	12478.2	11027.3	9670.4
-17.5°	24727.1	23273.6	21620.9	19989.1	18322.7	16707.2	15158.6	13672.4	12210.2	10805.9	9476.6
-20°	23642.4	22241.2	20835.6	19319.4	17728.4	16183.6	14680.7	13278.2	11890.3	10523.8	9246.9



REPORT NUMBER: P731425 (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°	22463.4	21194.4	19873.0	18492.3	17057.8	15594.2	14176.3	12831.3	11508.6	10164.4	8970.5
-25°	21218.7	20068.4	18838.2	17577.2	16281.6	14928.3	13602.3	12319.4	11039.1	9781.0	8654.2
-27.5°	19926.6	18868.2	17804.7	16634.7	15429.8	14208.4	12973.7	11749.4	10521.8	9390.6	8323.7
-30°	18600.6	17660.3	16702.3	15690.1	14560.6	13415.9	12286.8	11152.0	10026.8	8960.2	7949.6
-32.5°	17248.9	16428.9	15564.5	14677.0	13655.7	12593.9	11562.3	10543.6	9500.9	8513.7	7581.3
-35°	15908.3	15201.7	14432.9	13605.6	12722.6	11769.0	10813.3	9886.1	8968.8	8041.2	7183.7
-37.5°	14622.6	14005.5	13300.4	12536.0	11765.0	10937.5	10076.7	9232.0	8389.5	7569.4	6765.8
-40°	13347.2	12786.8	12189.9	11506.9	10820.6	10116.1	9354.2	8571.9	7816.8	7076.9	6329.8
-42.5°	12113.9	11625.9	11108.3	10517.8	9900.2	9292.1	8635.9	7929.4	7232.2	6560.2	5909.1
-45°	10935.9	10511.8	10050.8	9560.5	9017.5	8476.3	7915.1	7281.2	6646.5	6052.7	5466.5
-47.5°	9809.1	9444.0	9045.6	8638.8	8168.3	7676.7	7178.8	6629.0	6086.5	5542.0	5034.3
-50°	8727.8	8418.8	8087.1	7745.0	7356.1	6915.8	6475.8	6025.5	5536.5	5065.1	4600.8
-52.5°	7696.2	7458.8	7199.8	6910.7	6592.1	6213.7	5815.8	5434.7	5015.5	4600.5	4188.0
-55°	6815.8	6600.3	6384.3	6142.9	5879.7	5555.3	5214.8	4873.7	4529.3	4149.6	3791.9
-57.5°	6011.1	5811.1	5630.5	5429.1	5207.5	4937.7	4649.0	4349.2	4054.2	3726.7	3401.2
-60°	5274.2	5083.8	4931.8	4764.5	4582.2	4358.3	4112.6	3854.5	3584.5	3316.3	3041.0
-62.5°	4575.8	4409.4	4281.3	4147.6	4001.0	3827.0	3606.6	3388.0	3159.8	2921.8	2697.5
-65°	3943.9	3802.4	3687.0	3581.7	3465.7	3336.3	3143.4	2952.8	2763.8	2569.1	2368.7
-67.5°	3376.9	3256.9	3158.1	3067.9	2975.7	2873.7	2721.0	2554.9	2394.5	2235.4	2066.2
-70°	2864.7	2766.4	2681.7	2606.4	2528.0	2445.3	2327.6	2191.9	2053.1	1917.5	1776.1
-72.5°	2399.6	2319.4	2246.8	2186.1	2118.6	2050.3	1960.6	1849.1	1734.0	1615.7	1497.5
-75°	1968.2	1903.3	1842.2	1794.7	1742.9	1686.9	1618.2	1527.4	1435.5	1342.6	1248.1
-77.5°	1567.4	1517.4	1469.0	1434.0	1395.4	1353.3	1300.7	1228.7	1161.0	1092.0	1021.5
-80°	1208.7	1172.0	1135.8	1113.5	1089.4	1063.5	1031.7	976.6	920.2	865.6	813.4
-82.5°	902.8	877.6	852.4	840.7	827.2	811.8	792.5	752.5	712.0	670.9	629.7
-85°	666.0	648.7	631.1	624.3	616.5	607.8	597.4	571.2	544.6	517.5	490.0
-87.5°	510.3	497.4	484.4	479.4	474.2	468.8	463.2	445.6	428.0	410.3	392.6
-90°	3.8	4.0	4.3	4.6	4.9	5.1	5.4	5.7	6.0	6.2	6.5





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	326.9	311.3	295.7	280.1	264.2	248.3	232.4	216.5	198.5	180.4	162.4
87.5°	11.8	12.5	13.2	13.7	13.5	13.2	12.9	12.5	13.1	13.4	13.6
85°	25.0	23.6	22.5	21.6	20.4	18.8	18.2	17.6	18.4	18.8	18.9
82.5°	45.4	41.4	37.7	34.7	33.8	32.3	30.3	27.9	26.4	24.6	24.2
80°	60.8	55.7	50.8	46.8	46.3	45.9	43.8	41.1	39.0	36.3	33.0
77.5°	77.2	70.1	63.0	57.9	56.3	54.9	53.7	53.2	51.5	47.9	43.7
75°	94.3	85.9	77.7	72.0	68.8	63.7	61.4	61.7	63.5	59.8	54.3
72.5°	111.8	103.0	93.3	87.8	86.0	81.5	74.0	71.2	75.9	74.2	66.2
70°	127.5	120.4	110.9	108.5	106.3	100.3	93.4	91.4	89.4	89.3	82.2
67.5°	141.9	135.5	127.3	130.7	130.4	124.9	114.3	115.3	114.6	105.4	98.7
65°	146.4	146.9	145.0	154.2	156.1	151.3	141.2	142.8	140.9	131.8	115.8
62.5°	151.1	155.2	162.3	179.1	184.2	180.3	171.3	177.1	169.9	159.0	139.6
60°	156.2	164.0	183.9	204.9	214.0	211.6	209.5	213.7	206.6	187.1	166.3
57.5°	173.3	176.8	212.3	236.5	246.7	245.6	252.5	256.4	245.1	222.6	194.1
55°	201.4	214.9	254.5	276.8	286.1	283.1	302.0	304.2	286.9	260.9	223.9
52.5°	256.6	287.5	321.6	333.7	335.1	335.7	361.4	355.6	336.5	300.4	261.3
50°	380.4	407.5	425.6	418.5	396.1	415.4	428.2	420.2	388.8	343.6	300.3
47.5°	641.6	630.5	583.9	533.2	492.5	509.3	516.8	491.6	443.8	394.0	340.3
45°	1044.0	951.0	825.9	717.1	630.9	640.4	621.2	568.7	514.7	448.6	381.0
42.5°	1481.6	1341.3	1182.0	925.5	844.0	793.0	737.1	672.3	589.9	504.9	427.1
40°	1995.2	1753.9	1569.5	1292.9	1071.2	959.8	886.2	787.6	668.7	566.2	477.2
37.5°	2480.8	2185.3	1954.3	1639.6	1321.7	1170.9	1047.9	910.9	753.0	634.7	528.0
35°	2929.5	2604.3	2282.6	1952.3	1620.3	1382.6	1218.8	1048.6	851.1	702.6	579.3
32.5°	3368.5	2990.6	2616.9	2247.2	1894.6	1594.6	1404.8	1169.8	945.3	769.8	631.0
30°	3819.9	3379.0	2949.7	2532.5	2150.1	1830.9	1572.7	1283.4	1035.3	836.0	683.9
27.5°	4273.1	3762.2	3283.5	2826.4	2403.7	2047.2	1700.9	1389.3	1121.0	905.1	739.0
25°	4737.7	4166.2	3628.0	3120.2	2646.9	2213.6	1823.9	1488.0	1208.5	978.0	792.7
22.5°	5210.0	4575.8	3963.3	3406.5	2848.8	2381.4	1952.8	1591.6	1292.9	1047.0	844.7
20°	5654.4	4979.4	4277.0	3636.3	3048.2	2554.9	2089.9	1689.4	1370.7	1111.8	894.9
17.5°	6083.0	5342.4	4555.7	3861.3	3241.4	2714.5	2223.5	1781.0	1441.8	1172.6	943.0
15°	6526.6	5660.5	4825.3	4068.1	3417.7	2859.8	2352.3	1865.9	1506.5	1229.1	983.5
12.5°	6923.6	5969.5	5077.0	4255.9	3576.6	2991.1	2474.7	1943.8	1564.8	1278.9	1015.1
10°	7277.0	6264.2	5307.9	4423.7	3717.8	3108.3	2589.2	2023.2	1633.2	1323.7	1044.4
7.5°	7586.3	6538.8	5514.8	4570.6	3842.2	3205.5	2675.9	2113.6	1701.0	1365.1	1071.1
5°	7840.7	6766.1	5713.7	4740.1	3957.4	3284.6	2742.3	2196.3	1764.9	1402.8	1094.9
2.5°	8006.7	6920.9	5891.8	4897.7	4056.0	3351.4	2792.8	2270.7	1823.8	1436.3	1115.4
0°	8129.2	7034.8	6036.3	5032.4	4136.2	3404.8	2829.6	2336.3	1876.4	1464.9	1132.1
-2.5°	8287.0	7146.3	6126.5	5139.2	4248.3	3499.5	2892.2	2377.8	1913.3	1500.6	1159.9
-5°	8395.8	7219.4	6185.2	5219.5	4338.9	3577.4	2942.3	2409.8	1942.8	1530.8	1183.4
-7.5°	8471.7	7278.3	6224.4	5272.7	4407.0	3636.3	2978.6	2432.2	1965.1	1555.2	1202.3
-10°	8500.9	7310.1	6245.6	5288.5	4428.4	3664.2	3000.0	2444.9	1980.2	1573.5	1216.5
-12.5°	8477.8	7294.9	6229.3	5275.7	4421.8	3663.6	3008.1	2454.9	1988.7	1585.5	1225.7
-15°	8401.9	7231.0	6174.5	5233.8	4391.1	3644.8	3002.8	2457.3	1992.2	1589.6	1229.7
-17.5°	8266.7	7117.0	6080.2	5162.7	4335.8	3607.8	2983.9	2448.2	1987.0	1585.1	1226.9
-20°	8075.6	6967.2	5951.4	5062.3	4255.8	3552.6	2951.7	2427.3	1972.8	1573.5	1217.8



REPORT NUMBER: P731425 (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°	7847.5	6797.1	5827.9	4949.2	4162.4	3479.1	2906.0	2394.4	1949.5	1554.7	1203.9
-25°	7580.4	6597.7	5671.7	4826.0	4064.6	3414.2	2853.6	2349.5	1916.9	1528.7	1185.2
-27.5°	7315.7	6376.2	5480.1	4678.3	3960.4	3335.4	2793.7	2305.3	1877.6	1495.3	1161.6
-30°	7038.4	6135.0	5286.0	4516.7	3835.6	3245.8	2719.8	2250.7	1834.1	1460.1	1133.2
-32.5°	6714.8	5855.9	5074.7	4359.8	3711.1	3137.6	2632.2	2185.2	1781.8	1422.6	1106.1
-35°	6359.5	5575.0	4842.9	4181.0	3572.4	3027.8	2538.3	2108.8	1720.7	1379.5	1076.8
-37.5°	5981.8	5276.1	4625.7	3991.8	3410.4	2902.1	2443.9	2029.5	1650.8	1331.0	1043.4
-40°	5630.0	4968.8	4365.3	3791.3	3249.2	2761.1	2337.7	1946.0	1585.3	1277.2	1006.1
-42.5°	5254.1	4660.9	4099.4	3562.1	3078.5	2630.9	2222.0	1854.7	1520.4	1226.2	964.9
-45°	4894.1	4340.4	3821.1	3346.2	2896.7	2488.6	2112.2	1758.0	1447.8	1174.5	922.8
-47.5°	4519.1	4021.3	3551.3	3114.9	2725.3	2341.0	1994.1	1666.9	1367.5	1118.5	880.6
-50°	4156.6	3705.0	3283.2	2895.6	2533.5	2202.4	1871.2	1566.6	1295.6	1055.8	834.3
-52.5°	3791.1	3397.6	3023.0	2672.4	2355.5	2055.6	1747.9	1459.7	1217.3	992.4	784.0
-55°	3434.9	3101.7	2766.1	2458.7	2172.4	1900.3	1614.8	1363.4	1133.1	926.3	730.9
-57.5°	3102.5	2806.7	2521.0	2245.9	1984.3	1732.3	1488.9	1260.4	1049.6	855.7	683.7
-60°	2774.4	2529.2	2276.2	2030.0	1790.8	1570.8	1364.8	1154.3	962.9	783.7	631.9
-62.5°	2472.8	2251.5	2033.6	1809.5	1606.5	1418.4	1236.0	1049.5	871.6	718.4	576.8
-65°	2178.9	1984.4	1787.4	1607.2	1431.3	1264.6	1109.0	939.6	788.4	649.9	523.1
-67.5°	1891.9	1730.1	1569.3	1408.1	1261.6	1118.8	976.4	838.0	704.9	578.4	476.9
-70°	1632.0	1488.3	1356.4	1228.2	1098.9	972.5	857.8	738.0	618.1	521.1	429.0
-72.5°	1384.4	1272.2	1161.2	1049.7	946.2	842.9	740.1	639.5	549.0	462.3	379.4
-75°	1152.0	1065.2	980.3	893.3	801.9	712.2	635.0	558.1	478.3	401.7	337.6
-77.5°	949.9	878.4	807.2	741.0	671.7	604.4	539.3	474.7	410.1	352.6	298.0
-80°	761.6	709.7	657.9	605.3	549.1	494.9	449.3	403.3	352.4	303.7	257.3
-82.5°	589.3	553.9	519.8	484.8	446.8	409.1	371.9	334.7	293.4	253.8	223.3
-85°	463.2	436.1	408.6	380.7	351.4	322.5	301.1	279.5	253.8	228.4	203.3
-87.5°	375.3	357.9	340.3	322.5	304.1	285.6	266.9	248.2	226.3	204.6	183.0
-90°	6.8	7.0	7.3	7.5	7.5	7.5	7.5	7.5	7.8	8.1	8.3



REPORT NUMBER: P731425 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	144.3	119.5	94.8	70.0	45.2	26.4	7.5
87.5°	13.6	13.2	12.6	11.9	10.9	9.6	7.5
85°	18.7	17.8	16.6	15.1	13.3	11.1	7.5
82.5°	23.7	22.4	20.7	18.4	15.6	12.5	7.5
80°	29.3	27.0	24.7	21.6	18.0	14.0	7.5
77.5°	39.0	33.5	28.7	24.9	20.4	15.5	7.5
75°	48.9	43.5	33.7	28.1	22.7	17.0	7.5
72.5°	59.1	53.5	43.0	31.3	25.1	18.5	7.5
70°	70.3	63.8	52.4	35.5	27.5	20.0	7.5
67.5°	87.5	74.2	61.9	43.4	30.0	21.4	7.5
65°	105.2	87.8	71.4	51.3	32.4	22.9	7.5
62.5°	123.4	104.7	81.0	59.2	34.9	24.3	7.5
60°	142.1	121.9	90.7	67.1	37.3	25.7	7.5
57.5°	167.9	139.3	105.4	75.0	43.1	27.1	7.5
55°	194.9	157.1	120.5	82.8	48.8	28.5	7.5
52.5°	222.5	176.0	135.6	90.6	54.4	29.9	7.5
50°	250.6	200.2	150.8	98.3	59.9	31.2	7.5
47.5°	280.1	224.5	165.9	106.9	65.3	32.5	7.5
45°	315.3	248.9	181.0	118.3	70.5	33.8	7.5
42.5°	350.8	273.3	196.1	129.6	75.7	35.1	7.5
40°	386.5	297.8	213.3	140.7	80.7	36.3	7.5
37.5°	422.3	322.1	232.2	151.5	85.6	37.5	7.5
35°	458.1	349.4	250.9	162.0	90.3	38.7	7.5
32.5°	495.8	377.8	269.2	172.1	94.9	39.8	7.5
30°	537.7	405.7	287.1	181.8	99.2	40.9	7.5
27.5°	579.1	433.1	303.3	191.1	103.4	41.9	7.5
25°	619.9	459.8	318.7	199.9	107.4	42.9	7.5
22.5°	659.7	484.4	333.3	208.2	111.2	43.8	7.5
20°	698.5	504.9	347.0	216.0	114.7	44.7	7.5
17.5°	729.0	523.8	359.8	223.3	118.0	45.6	7.5
15°	752.6	541.2	371.6	230.0	121.1	46.3	7.5
12.5°	773.5	556.9	382.5	236.2	123.9	47.0	7.5
10°	791.7	570.9	392.3	241.7	126.4	47.7	7.5
7.5°	807.1	583.3	401.0	246.6	128.7	48.2	7.5
5°	819.7	593.9	408.5	250.9	130.6	48.7	7.5
2.5°	829.7	602.7	414.9	254.5	132.3	49.2	7.5
0°	836.9	609.7	420.1	257.4	133.6	49.5	7.5
-2.5°	857.0	621.1	427.0	261.3	135.7	50.5	7.5
-5°	874.2	630.5	432.5	264.5	137.4	51.4	7.5
-7.5°	888.2	637.9	436.7	266.9	138.8	52.2	7.5
-10°	898.8	643.1	439.5	268.5	139.8	52.9	7.5
-12.5°	905.6	646.1	440.9	269.3	140.5	53.5	7.5
-15°	908.5	646.8	440.7	269.4	140.9	54.0	7.5
-17.5°	907.3	645.1	439.0	268.6	140.9	54.5	7.5
-20°	902.3	641.0	435.8	266.9	140.6	54.8	7.5



REPORT NUMBER: P731425 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-7F-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	894.4	634.4	431.0	264.4	139.9	55.1	7.5
-25°	883.0	627.9	424.5	261.1	138.9	55.2	7.5
-27.5°	868.0	619.8	416.5	256.9	137.5	55.2	7.5
-30°	849.6	609.1	407.1	251.9	135.8	55.2	7.5
-32.5°	827.7	595.6	398.5	245.9	133.7	55.0	7.5
-35°	807.3	579.4	388.3	239.2	131.3	54.8	7.5
-37.5°	785.4	562.1	376.3	231.6	128.6	54.4	7.5
-40°	760.0	545.4	362.6	223.2	125.5	53.9	7.5
-42.5°	731.2	526.4	349.8	214.4	122.1	53.4	7.5
-45°	698.8	505.1	338.4	205.8	118.3	52.7	7.5
-47.5°	663.1	481.6	325.6	196.3	114.3	51.9	7.5
-50°	630.7	455.9	311.5	189.6	109.9	51.1	7.5
-52.5°	596.6	428.1	296.0	183.3	105.3	50.1	7.5
-55°	559.9	405.3	279.4	176.4	100.3	49.1	7.5
-57.5°	520.6	382.1	261.5	168.8	95.1	47.9	7.5
-60°	480.1	357.3	242.9	160.6	89.7	46.7	7.5
-62.5°	447.1	330.9	230.0	151.7	86.8	45.4	7.5
-65°	412.2	303.2	216.2	142.3	83.8	44.0	7.5
-67.5°	375.5	278.6	201.5	132.3	80.6	42.5	7.5
-70°	337.3	257.4	186.0	121.8	77.2	41.0	7.5
-72.5°	306.8	235.2	169.8	115.3	73.7	39.4	7.5
-75°	276.5	212.0	153.0	109.5	70.0	37.7	7.5
-77.5°	245.1	188.0	142.7	103.5	66.1	35.9	7.5
-80°	212.7	171.5	133.7	97.2	62.2	34.1	7.5
-82.5°	194.7	159.0	124.4	90.7	58.1	32.2	7.5
-85°	178.3	146.2	114.7	84.0	53.9	30.3	7.5
-87.5°	161.4	133.0	104.9	77.0	49.6	28.4	7.5
-90°	8.6	8.6	8.6	8.6	8.6	8.1	7.5

(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

