

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: P731577 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-57-80-2S-VHE**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731577 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0530N-57-80-2S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 2S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

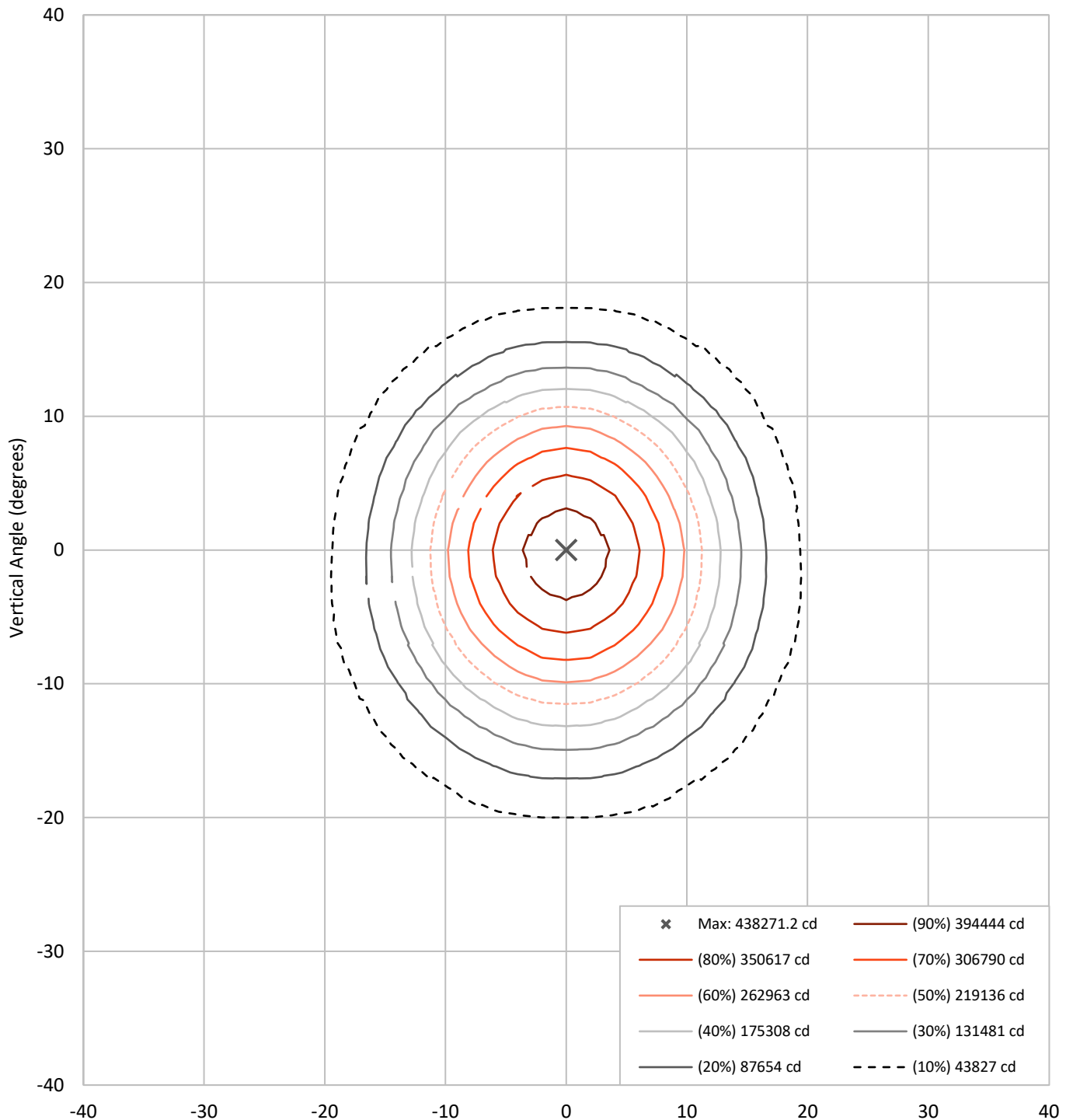
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	76603.3 lumens	Max Intensity:	438271.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	136.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22.5°H x 22.2°V	Field Angle (10%):	38.8°H x 38.1°V
Beam Lumens:	35795.5 lumens	Field Lumens:	63768.8 lumens
Beam Efficiency:	46.7%	Field Efficiency:	83.2%

Input Watts (W): 561.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Candela Plot





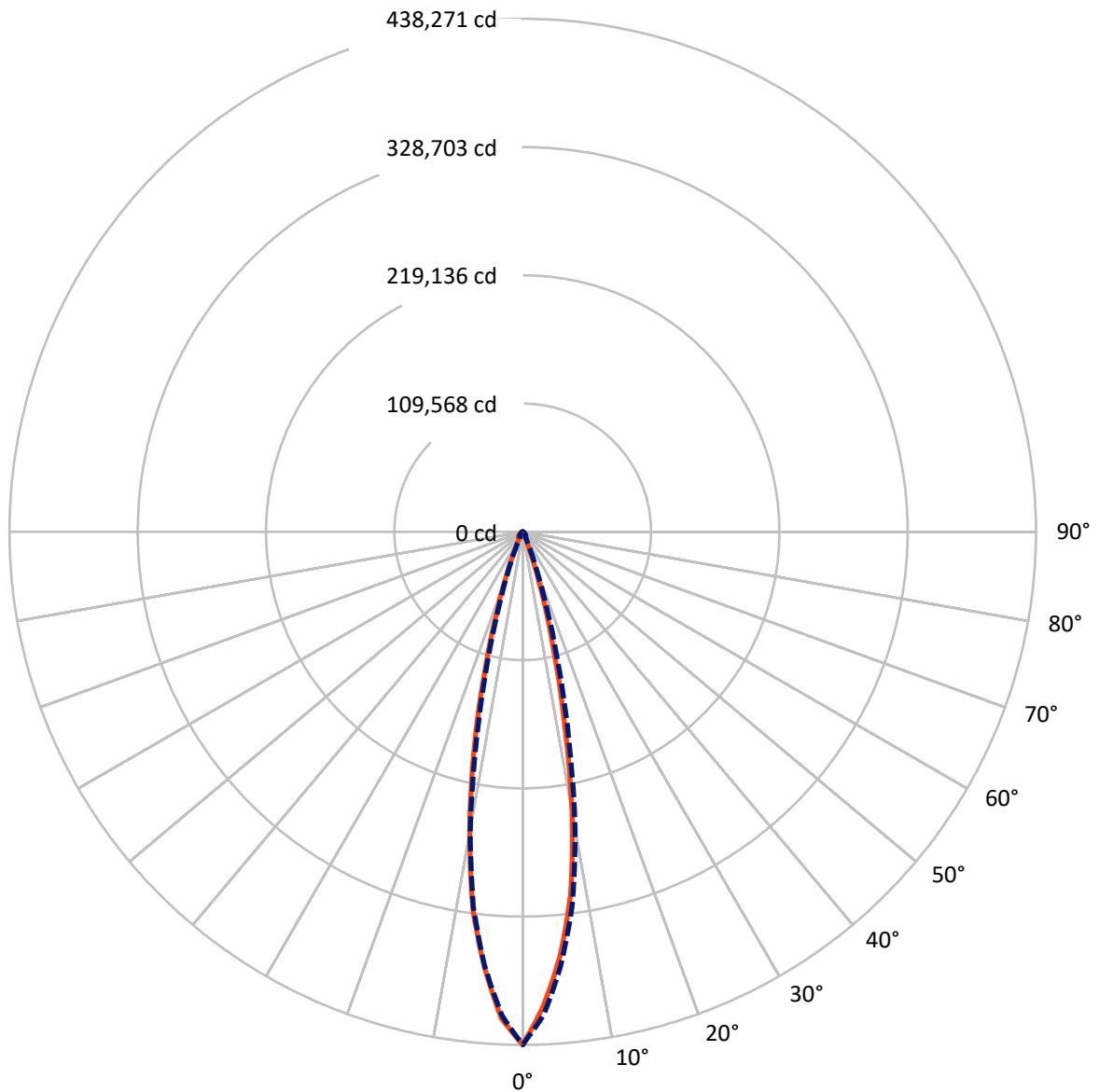
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### Lumen Table

90	0.2		0.6		1.1		1.6		2.0		1.6		1.1		0.6		0.2	
80	0.2		0.1	0.2	0.6	0.7	0.7	0.6	0.7	0.7	0.6	0.7	0.7	0.6	0.2	0.1	0.2	
70	0.2		0.3	0.6	0.9	0.7	0.7	0.7	0.9	0.9	0.7	0.7	0.7	0.9	0.6	0.3	0.2	
60	0.6		0.9	2.3	4.6	8.0	13.2	20.2	23.8	23.8	20.2	13.2	8.0	4.6	2.3	0.9	0.6	
50	0.6		2.3	7.5	14.6	28.5	49.7	60.4	66.9	66.9	60.4	49.7	28.5	14.6	7.5	2.3	0.6	
40	1.5		4.1	12.5	26.6	65.1	75.7	104.4	190.8	190.8	104.4	75.7	65.1	26.6	12.5	4.1	1.5	
30	1.5		5.5	16.3	46.7	91.8	134.8	855.3	2758.8	2758.8	855.3	134.8	91.8	46.7	16.3	5.5	1.5	
20	2.2		6.6	18.8	61.0	105.1	301.5	3030.2	9109.4	9109.4	3030.2	301.5	105.1	61.0	18.8	6.6	2.2	
10	2.2		7.2	20.7	64.3	115.7	345.7	3300.1	9473.4	9473.4	3300.1	345.7	115.7	64.3	20.7	7.2	2.2	
0	2.4		7.3	21.6	62.0	121.7	197.9	1209.5	3543.1	3543.1	1209.5	197.9	121.7	62.0	21.6	7.3	2.4	
-10	2.4		6.8	21.2	47.4	114.8	157.3	218.6	437.2	437.2	218.6	157.3	114.8	47.4	21.2	6.8	2.4	
-20	2.0		5.7	18.6	37.1	80.2	141.3	165.5	173.6	173.6	165.5	141.3	80.2	37.1	18.6	5.7	2.0	
-30	2.0		4.4	14.1	30.0	47.9	73.6	111.9	140.4	140.4	111.9	73.6	47.9	30.0	14.1	4.4	2.0	
-40	1.6		2.9	8.9	19.7	33.5	45.4	54.1	59.8	59.8	54.1	45.4	33.5	19.7	8.9	2.9	1.6	
-50	1.6		1.9	4.5	9.9	17.1	24.0	30.2	34.0	34.0	30.2	24.0	17.1	9.9	4.5	1.9	1.6	
-60	1.6		1.9	4.5	9.9	17.1	24.0	30.2	34.0	34.0	30.2	24.0	17.1	9.9	4.5	1.9	1.6	
-70	1.6		1.9	4.5	9.9	17.1	24.0	30.2	34.0	34.0	30.2	24.0	17.1	9.9	4.5	1.9	1.6	
-80	1.1		7.0		17.0		28.4		34.7		28.4		17.0		7.0		1.1	
-90	1.1		7.0		17.0		28.4		34.7		28.4		17.0		7.0		1.1	

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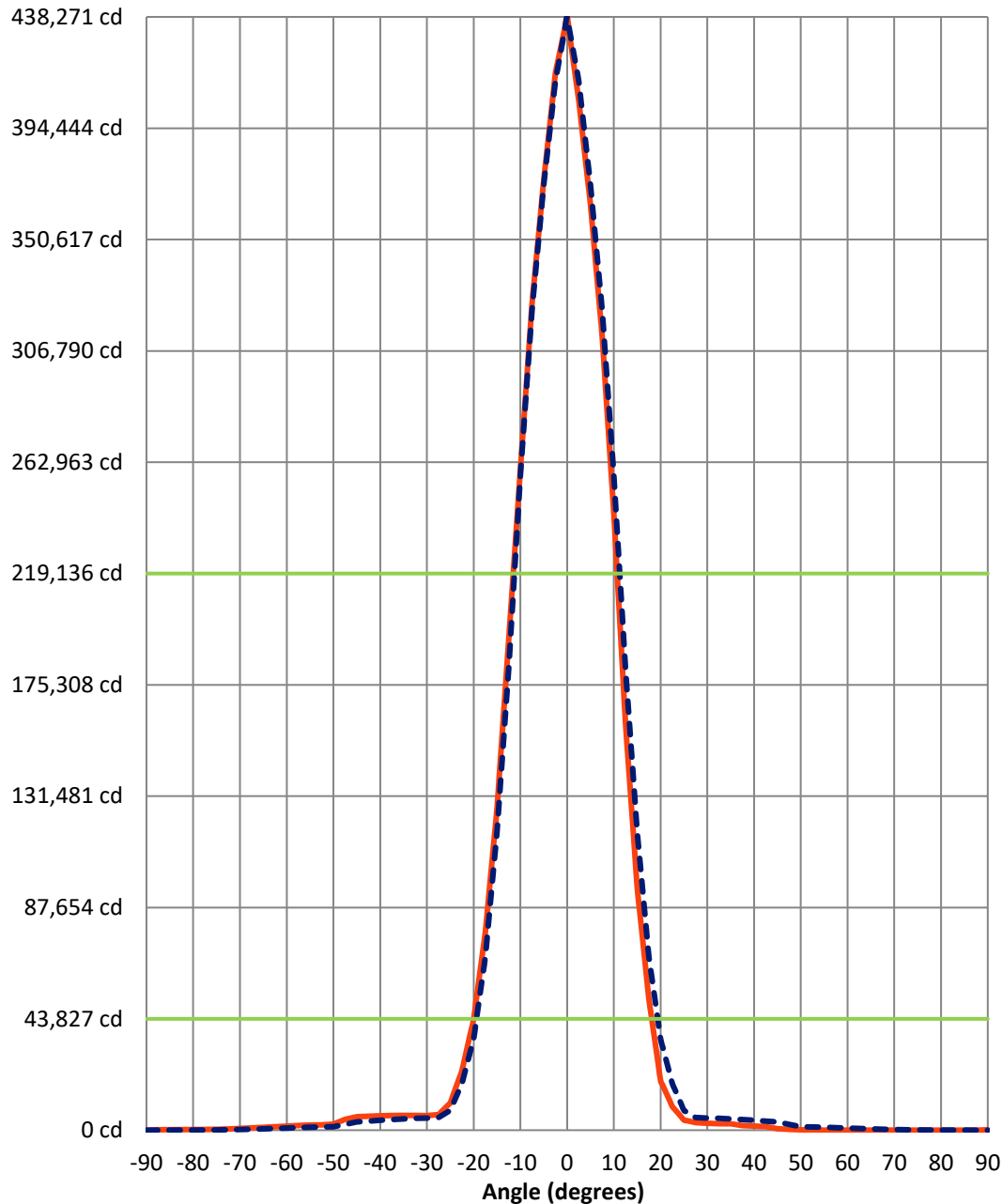
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 22.5°  
 V Angle: 22.2°  
 Lumens: 35795.5  
 Efficiency: 46.7%

**Field:**  
 H Angle: 38.8°  
 V Angle: 38.1°  
 Lumens: 63768.8  
 Efficiency: 83.2%

**Spill:**  
 Lumens: 12834.5  
 Efficiency: 16.8%

— 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°	4.5	9.4	14.3	24.6	34.9	43.8	52.8	59.5	66.2	71.6	76.9
87.5°	4.5	4.6	4.7	4.7	4.7	4.7	4.7	4.6	4.5	4.5	4.5
85°	4.5	4.7	4.8	4.9	4.8	4.9	5.0	4.8	4.5	4.5	4.5
82.5°	4.5	4.9	5.0	5.0	5.0	5.1	5.2	4.9	4.6	4.7	4.7
80°	4.5	5.0	5.1	5.2	5.1	5.3	5.4	5.3	5.2	5.2	5.2
77.5°	4.5	5.1	5.3	5.4	5.3	5.5	5.7	5.7	5.8	5.8	5.6
75°	4.5	5.2	5.5	5.6	5.5	5.8	5.9	6.0	6.3	6.2	6.0
72.5°	4.5	5.3	5.6	5.8	5.8	6.1	6.2	6.4	6.7	6.6	6.4
70°	4.5	5.4	5.8	6.0	6.2	6.4	6.5	6.9	7.1	7.0	6.9
67.5°	4.5	5.6	6.0	6.2	6.5	6.8	7.0	7.3	7.5	7.6	7.5
65°	4.5	5.7	6.2	6.5	6.8	7.2	7.6	7.8	8.4	8.3	8.2
62.5°	4.5	5.8	6.3	6.7	7.1	7.7	8.1	8.8	9.4	9.2	9.6
60°	4.5	5.9	6.5	6.9	7.4	8.2	8.7	10.0	10.5	11.0	11.2
57.5°	4.5	6.0	6.8	7.2	8.0	8.8	10.2	11.4	12.7	13.3	15.0
55°	4.5	6.1	7.1	7.4	8.6	9.3	11.8	13.0	15.3	16.6	20.1
52.5°	4.5	6.3	7.3	7.6	9.3	10.1	13.6	15.8	18.2	22.8	25.7
50°	4.5	6.4	7.6	7.8	10.0	12.0	15.5	18.9	22.3	29.6	36.8
47.5°	4.5	6.5	8.0	8.1	10.8	13.9	17.6	22.0	29.1	36.9	50.0
45°	4.5	6.6	8.3	8.7	11.6	16.0	20.5	25.3	36.7	50.2	64.4
42.5°	4.5	6.7	8.7	9.4	12.4	18.1	23.4	30.9	44.8	64.5	87.5
40°	4.5	6.8	9.1	10.3	13.7	20.2	26.5	38.2	55.2	79.7	113.8
37.5°	4.5	6.9	9.5	11.3	15.4	22.4	29.8	45.9	70.0	99.3	141.9
35°	4.5	7.0	9.9	12.4	17.1	25.0	33.3	53.7	85.5	125.6	173.5
32.5°	4.5	7.1	10.3	13.5	18.7	27.7	37.7	61.9	101.8	152.3	206.9
30°	4.5	7.2	10.8	14.7	20.4	30.4	44.3	71.3	118.6	179.3	238.8
27.5°	4.5	7.3	11.2	15.9	22.6	33.1	50.9	83.7	135.9	206.5	269.0
25°	4.5	7.4	11.7	17.1	24.7	35.8	57.3	95.5	154.0	232.2	297.6
22.5°	4.5	7.5	12.2	18.3	26.8	38.6	63.7	106.5	170.7	249.7	328.7
20°	4.5	7.6	12.6	19.5	28.9	41.5	69.8	116.8	185.9	265.9	352.8
17.5°	4.5	7.7	13.1	20.8	30.8	44.3	75.4	126.4	199.7	280.8	375.7
15°	4.5	7.8	13.6	22.0	32.7	46.9	80.4	134.9	212.1	294.3	397.7
12.5°	4.5	7.8	14.0	23.2	34.5	49.5	85.0	142.0	223.7	306.4	418.4
10°	4.5	7.9	14.5	24.4	36.2	51.8	89.2	148.4	234.7	321.4	439.9
7.5°	4.5	8.0	14.9	25.5	37.8	54.1	92.8	154.0	244.7	335.9	464.3
5°	4.5	8.0	15.3	26.6	39.3	56.2	96.1	158.7	253.4	349.2	486.8
2.5°	4.5	8.1	15.7	27.6	40.7	58.1	98.8	162.5	260.7	361.0	506.9
0°	4.5	8.1	16.1	28.6	42.0	59.9	101.1	165.5	266.5	371.2	524.2
-2.5°	4.5	8.4	16.9	29.9	43.8	62.4	104.3	171.5	274.6	381.9	533.3
-5°	4.5	8.8	17.8	31.0	45.6	64.7	107.1	176.5	281.1	390.6	539.4
-7.5°	4.5	9.1	18.5	32.2	47.2	66.8	109.3	180.4	285.7	397.2	542.7
-10°	4.5	9.4	19.3	33.2	48.7	68.7	110.9	183.2	288.6	401.7	543.2
-12.5°	4.5	9.7	20.0	34.1	50.0	70.4	112.0	184.5	289.4	403.4	542.6
-15°	4.5	10.0	20.6	35.0	51.3	71.9	112.6	184.5	287.3	400.2	538.8
-17.5°	4.5	10.3	21.2	35.8	52.3	73.1	112.6	182.6	282.0	394.6	530.8
-20°	4.5	10.6	21.7	36.5	53.3	74.2	112.1	179.2	274.9	386.6	518.4



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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°	4.5	10.8	22.2	37.1	54.1	74.9	111.3	174.5	266.0	376.1	501.9
-25°	4.5	11.0	22.7	37.6	54.7	75.6	109.7	168.7	255.4	363.2	485.7
-27.5°	4.5	11.2	23.0	38.0	55.1	76.1	107.6	161.7	242.9	352.6	474.3
-30°	4.5	11.4	23.3	38.4	55.5	76.3	104.7	153.5	233.0	340.7	460.1
-32.5°	4.5	11.6	23.6	38.6	55.9	76.3	101.2	148.3	224.6	326.2	442.7
-35°	4.5	11.7	23.8	38.8	56.2	76.1	99.8	143.9	214.2	309.1	422.3
-37.5°	4.5	11.9	23.9	38.9	56.3	75.8	99.2	138.9	201.7	289.4	400.1
-40°	4.5	12.0	23.9	38.9	56.3	75.8	98.3	132.7	187.2	271.6	375.2
-42.5°	4.5	12.0	23.9	38.8	56.2	75.6	97.2	125.3	176.2	252.6	347.0
-45°	4.5	12.1	23.9	38.8	56.2	75.1	95.6	119.6	166.3	231.0	316.5
-47.5°	4.5	12.1	23.7	38.6	56.0	74.6	93.7	117.3	154.9	207.2	289.2
-50°	4.5	12.1	23.5	38.4	55.6	73.8	92.5	114.6	142.1	192.3	259.0
-52.5°	4.5	12.1	23.2	38.2	55.1	72.8	91.2	111.5	135.3	176.0	226.9
-55°	4.5	12.1	22.9	37.8	54.5	71.8	89.6	108.1	131.0	158.3	205.3
-57.5°	4.5	12.0	22.5	37.3	53.7	70.6	87.8	105.9	126.3	149.8	182.6
-60°	4.5	11.9	22.0	36.7	52.8	69.2	85.8	103.4	121.5	143.6	164.0
-62.5°	4.5	11.8	21.7	36.0	51.8	67.6	83.6	100.5	117.9	136.6	155.6
-65°	4.5	11.7	21.2	35.2	50.6	65.8	81.3	97.4	114.0	130.8	146.7
-67.5°	4.5	11.5	20.8	34.3	49.3	63.8	78.6	94.1	109.7	125.1	139.3
-70°	4.5	11.3	20.2	33.3	47.8	61.7	75.8	90.5	105.5	119.2	132.4
-72.5°	4.5	11.2	19.6	32.4	46.3	59.5	72.9	86.8	101.1	113.6	125.3
-75°	4.5	11.0	19.0	31.5	44.6	57.1	69.8	82.9	96.4	107.7	118.5
-77.5°	4.5	10.7	18.3	30.5	43.1	54.6	66.6	78.7	91.3	101.6	111.4
-80°	4.5	10.5	17.6	29.5	41.7	52.4	63.2	74.4	86.0	95.0	103.9
-82.5°	4.5	10.2	16.8	28.4	40.1	50.4	60.6	70.3	80.4	88.2	96.0
-85°	4.5	10.0	16.0	27.2	38.5	48.3	58.1	66.8	75.7	82.3	88.8
-87.5°	4.5	9.7	15.2	25.9	36.7	46.1	55.5	63.2	71.0	77.0	82.9
-90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5





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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°	81.0	85.0	88.6	92.1	96.2	100.2	104.7	109.1	113.6	118.1	121.7
87.5°	4.3	4.1	4.1	4.1	3.9	3.6	3.6	3.6	3.2	2.7	2.7
85°	4.5	4.5	4.5	4.5	4.2	3.9	3.8	3.6	3.4	3.2	3.2
82.5°	4.8	4.9	4.8	4.5	4.4	4.4	4.1	3.7	3.8	3.9	3.8
80°	5.3	5.4	5.1	4.8	4.7	4.5	4.4	4.4	4.4	4.5	4.2
77.5°	5.6	5.5	5.3	5.3	5.1	4.8	4.8	5.0	4.9	4.6	4.5
75°	5.8	5.5	5.5	5.5	5.3	5.3	5.4	5.4	5.2	5.1	5.0
72.5°	6.2	6.0	5.9	5.6	5.6	5.5	5.4	5.4	6.3	7.5	8.4
70°	6.7	6.5	6.3	6.2	6.0	6.0	7.0	9.1	11.3	13.0	15.3
67.5°	7.2	7.1	6.9	6.9	7.3	8.3	9.9	15.8	21.8	23.9	25.0
65°	8.0	7.9	7.8	8.4	8.8	13.4	19.3	26.2	33.6	35.1	33.7
62.5°	9.0	10.0	9.7	11.2	15.3	20.9	28.3	36.3	44.7	42.7	35.7
60°	12.3	12.9	14.3	17.8	22.5	28.7	37.1	40.4	43.9	44.6	34.6
57.5°	16.6	18.5	21.8	25.5	31.6	35.1	36.4	36.4	41.5	41.8	31.8
55°	23.1	26.3	31.4	35.7	39.6	35.8	35.8	39.1	40.8	37.8	28.2
52.5°	33.3	36.6	44.6	47.8	45.8	42.6	41.7	44.6	43.0	38.4	32.7
50°	44.6	54.1	59.4	62.0	57.0	56.4	51.8	54.5	56.1	53.6	56.1
47.5°	62.7	74.3	78.6	82.6	78.4	82.8	78.5	91.2	91.5	123.0	126.7
45°	84.8	100.5	105.6	114.6	121.6	125.6	150.5	152.1	219.1	245.3	301.8
42.5°	110.7	131.1	148.9	153.4	195.6	215.8	251.0	315.6	377.3	430.5	460.6
40°	143.8	165.6	202.9	244.5	292.4	339.6	392.1	467.9	533.2	561.8	577.0
37.5°	180.2	222.1	271.7	341.3	412.5	466.7	529.1	600.4	643.8	658.9	662.4
35°	219.3	279.7	362.7	435.8	512.1	584.9	643.1	711.2	725.8	737.9	804.9
32.5°	266.8	337.2	435.1	517.1	594.3	677.7	736.6	776.9	800.2	844.5	1063.0
30°	314.4	397.0	493.9	581.0	671.2	750.4	806.5	845.6	872.2	1081.2	1535.2
27.5°	353.5	448.5	544.8	646.0	745.5	825.0	878.9	914.5	1068.9	1415.5	2114.6
25°	389.1	488.9	595.6	717.8	822.4	896.0	951.3	986.5	1331.8	2039.6	2524.4
22.5°	422.4	528.0	653.1	793.6	899.0	961.5	1014.6	1205.9	1728.8	2671.9	2932.7
20°	455.0	575.0	715.6	857.8	970.7	1017.0	1072.8	1451.7	2239.3	2915.3	3200.9
17.5°	488.7	623.2	774.5	907.1	1008.1	1066.5	1155.9	1690.2	2670.4	3128.4	3335.0
15°	522.5	668.6	822.4	950.6	1044.9	1115.0	1346.1	2031.8	2937.4	3362.6	3557.2
12.5°	555.6	708.4	858.5	987.8	1083.5	1161.0	1520.0	2385.0	3178.7	3592.5	3850.1
10°	587.4	742.8	889.4	1023.9	1121.3	1205.6	1695.7	2730.2	3396.6	3742.4	3958.4
7.5°	615.2	770.8	916.1	1058.4	1156.6	1249.4	1888.4	2959.3	3489.3	3837.7	4013.3
5°	638.9	793.0	943.1	1096.8	1193.2	1289.8	2063.4	3110.4	3524.6	3896.5	4070.6
2.5°	658.9	810.9	966.4	1132.9	1229.2	1323.9	2186.0	3206.1	3548.6	3919.0	4126.9
0°	675.3	824.7	985.7	1164.6	1262.1	1354.2	2277.3	3252.3	3556.4	3910.6	4179.8
-2.5°	685.9	844.9	1021.4	1195.2	1289.0	1379.6	2273.5	3279.4	3566.1	3955.8	4384.3
-5°	693.0	860.6	1051.5	1221.0	1313.4	1401.9	2234.6	3259.5	3587.7	4024.4	4517.9
-7.5°	696.6	871.2	1074.5	1241.8	1336.4	1427.0	2186.6	3213.7	3697.9	4165.6	4601.6
-10°	697.8	877.5	1079.2	1251.8	1357.8	1451.6	2107.4	3117.4	3785.0	4224.7	4626.0
-12.5°	702.4	880.5	1076.7	1255.9	1375.9	1474.1	2009.5	3053.5	3902.0	4261.2	4617.2
-15°	702.0	879.3	1069.5	1254.7	1398.1	1504.2	1879.4	2902.9	3973.3	4269.3	4593.4
-17.5°	696.1	874.3	1058.5	1250.4	1419.2	1526.8	1695.8	2593.0	3769.5	4233.2	4565.3
-20°	684.4	863.4	1043.0	1236.8	1430.9	1547.6	1674.0	2321.6	3350.1	4137.5	4512.3



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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°	667.7	847.3	1024.1	1214.1	1425.4	1571.2	1689.2	2057.7	2935.9	3995.6	4426.5
-25°	648.1	824.9	1002.2	1201.8	1417.2	1593.9	1692.4	1812.5	2575.5	3525.8	4278.7
-27.5°	626.4	797.2	978.1	1175.8	1404.4	1589.8	1691.1	1804.4	2191.7	2947.9	4043.2
-30°	601.2	766.1	944.9	1137.9	1359.1	1547.0	1687.1	1780.8	1899.1	2494.7	3428.8
-32.5°	573.4	730.9	905.4	1095.1	1300.9	1499.2	1663.8	1761.9	1865.7	2069.6	2822.6
-35°	546.1	696.9	861.7	1045.8	1241.4	1434.3	1602.7	1742.0	1829.2	1943.9	2287.5
-37.5°	520.8	658.8	813.9	991.9	1181.1	1353.7	1535.9	1686.9	1806.2	1889.3	2028.3
-40°	491.5	616.2	764.9	931.6	1101.6	1265.9	1439.1	1608.9	1755.4	1864.9	1947.8
-42.5°	458.6	577.8	712.3	860.4	1017.4	1173.8	1337.6	1505.8	1666.7	1811.0	1913.8
-45°	422.9	534.9	655.9	790.3	929.7	1078.8	1234.7	1393.9	1553.6	1712.8	1839.5
-47.5°	381.6	487.7	602.5	715.5	844.1	981.0	1126.0	1275.6	1423.3	1576.9	1722.8
-50°	338.7	436.7	541.6	645.9	757.5	881.2	1013.9	1153.7	1293.8	1435.6	1576.2
-52.5°	299.7	381.1	477.8	576.1	674.7	780.5	900.6	1028.1	1160.3	1294.1	1417.0
-55°	258.1	331.4	410.8	502.9	595.4	687.4	785.0	900.4	1020.2	1144.3	1254.5
-57.5°	226.1	281.3	349.7	425.9	511.9	599.0	684.7	771.4	878.3	988.7	1081.4
-60°	199.5	239.3	291.8	356.1	424.6	505.1	585.6	666.2	748.9	827.9	913.5
-62.5°	175.1	207.6	244.6	289.5	349.0	411.1	482.6	556.8	632.5	700.6	763.6
-65°	164.7	180.2	207.9	241.6	275.7	328.8	386.0	444.4	510.1	570.4	627.2
-67.5°	153.6	168.0	182.4	200.1	230.7	262.1	293.7	345.3	396.8	443.5	489.7
-70°	144.7	155.8	168.5	181.5	194.7	212.7	240.9	270.1	299.3	331.5	370.6
-72.5°	136.0	145.9	156.1	166.2	178.0	190.4	203.3	216.5	236.7	261.5	283.9
-75°	127.6	135.9	145.0	154.3	163.6	173.1	183.6	195.7	207.8	219.8	231.2
-77.5°	119.6	127.1	134.7	142.5	150.6	159.0	168.2	177.8	187.8	197.6	206.4
-80°	111.1	118.2	124.7	131.4	138.6	145.9	153.6	161.5	170.2	179.3	187.2
-82.5°	101.9	107.9	113.8	119.7	126.4	133.1	139.6	146.2	153.4	160.7	167.2
-85°	93.2	97.4	102.5	107.7	113.6	119.5	125.1	130.7	136.9	143.1	148.2
-87.5°	87.1	91.2	95.3	99.3	104.0	108.8	113.4	117.9	123.1	128.3	132.2
-90°	4.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.2	2.7	2.7



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	125.2	127.9	130.6	132.0	133.3	136.0	138.6	142.7	146.7	151.2	155.6
87.5°	2.7	2.7	2.7	2.6	2.6	2.2	1.8	1.8	1.8	1.8	1.8
85°	3.3	3.3	3.4	3.1	2.7	2.6	2.6	2.6	2.6	2.2	1.8
82.5°	3.6	3.6	3.6	3.5	3.4	3.1	2.7	2.7	2.7	2.7	2.7
80°	3.9	3.8	3.6	3.6	3.6	3.5	3.4	3.1	2.7	3.1	3.5
77.5°	4.5	4.2	4.0	3.8	3.7	3.4	3.0	2.8	2.7	2.7	2.8
75°	4.7	4.7	5.4	5.5	5.3	4.9	4.1	4.0	4.1	3.9	3.6
72.5°	9.1	9.5	9.8	10.7	11.2	11.7	12.7	14.4	16.5	18.4	20.2
70°	18.3	20.8	21.4	21.5	21.4	22.1	23.0	24.1	25.5	26.7	27.7
67.5°	28.2	30.4	30.7	31.2	30.3	29.1	27.9	27.9	29.5	31.4	33.5
65°	34.4	32.1	30.4	30.0	29.4	28.0	25.6	23.9	23.5	23.2	23.2
62.5°	30.9	26.4	24.8	24.5	23.1	21.4	18.3	15.6	14.3	13.6	13.7
60°	26.7	21.5	18.3	16.9	14.7	12.5	10.6	8.6	8.1	7.8	7.9
57.5°	22.0	16.4	12.6	12.0	10.4	8.2	6.8	5.4	5.2	5.2	5.5
55°	20.2	17.2	14.4	13.4	11.5	10.5	9.1	7.2	6.8	7.3	8.0
52.5°	26.2	24.6	23.3	23.4	25.7	23.9	17.8	24.9	29.0	29.0	27.7
50°	57.5	51.7	73.7	71.0	88.7	100.5	91.2	102.4	118.5	129.8	137.6
47.5°	164.0	170.0	196.4	219.3	237.7	258.3	279.3	292.0	295.2	316.0	330.3
45°	330.1	349.9	379.3	394.2	423.2	457.5	481.6	492.4	555.6	634.3	685.1
42.5°	479.1	494.4	517.5	569.9	623.0	740.6	875.5	880.2	1002.1	1110.0	1220.5
40°	583.3	612.1	694.3	818.6	1105.4	1329.3	1488.6	1644.8	1670.8	1620.1	1647.8
37.5°	718.2	821.0	1029.2	1364.5	1612.8	1837.6	1928.2	1939.9	1971.4	1991.2	1959.8
35°	972.5	1314.9	1487.6	1772.7	1953.2	1997.1	2024.5	2051.5	2077.3	2095.0	2114.2
32.5°	1529.3	1953.5	1976.3	2049.6	2083.4	2122.3	2151.3	2168.1	2179.9	2195.4	2247.8
30°	2127.8	2226.6	2234.9	2229.0	2240.6	2266.9	2285.8	2316.7	2347.6	2383.0	2499.1
27.5°	2407.4	2483.0	2459.5	2419.1	2399.1	2420.0	2471.6	2519.7	2609.2	2703.4	2870.1
25°	2716.8	2766.9	2738.1	2666.4	2621.5	2651.2	2728.8	2820.5	2991.6	3142.5	3449.2
22.5°	3048.1	3141.3	3111.1	3089.8	2995.2	3009.4	3070.6	3277.5	3705.6	4383.5	5790.9
20°	3305.0	3418.9	3433.4	3433.9	3414.0	3419.8	3562.1	4229.4	5481.1	9414.6	12901.6
17.5°	3495.5	3562.3	3642.5	3675.5	3714.5	3828.3	4587.2	6895.8	12301.5	19536.1	25076.0
15°	3742.5	3828.0	3914.9	3969.9	4058.0	4684.0	6624.5	13714.9	23544.9	35823.9	51518.7
12.5°	3940.1	4045.6	4114.5	4158.1	4361.3	6008.0	12759.5	22966.9	38303.9	57358.0	85623.9
10°	4049.5	4131.7	4225.8	4376.9	5205.5	8714.7	17993.7	32274.4	55850.7	90171.9	127819.4
7.5°	4104.0	4210.3	4367.7	4597.2	6161.2	12721.9	25032.5	45555.3	77757.3	120493.8	172950.0
5°	4167.3	4363.9	4551.3	4814.0	6903.3	15615.2	30627.8	56882.5	96857.4	149137.3	213921.0
2.5°	4269.7	4565.3	4686.1	4938.6	7350.5	17477.8	33964.3	65741.9	111119.9	172511.2	245246.4
0°	4431.2	4677.1	4749.6	5003.6	7800.6	18399.0	35924.2	68171.3	117473.0	181613.9	257584.0
-2.5°	4613.6	4767.2	4847.5	5130.6	8026.6	19338.9	37466.2	69803.6	115960.0	178581.6	252948.9
-5°	4732.5	4854.6	4932.3	5209.1	8001.8	18399.0	35743.3	65004.3	107114.1	163123.9	229613.5
-7.5°	4813.6	4940.5	5022.0	5275.6	7528.8	15900.5	31570.2	56032.8	91028.4	136963.9	194394.1
-10°	4892.7	5031.3	5138.1	5338.4	6663.5	12138.4	24779.1	42272.7	71189.9	107738.6	150677.5
-12.5°	4964.1	5135.4	5272.7	5364.9	5850.8	9232.6	18209.6	32334.0	51241.9	78524.9	109946.3
-15°	5000.1	5205.1	5358.8	5460.5	5742.2	7300.3	11791.6	21395.9	35775.0	52698.0	73144.1
-17.5°	4937.9	5243.6	5391.5	5503.5	5596.2	5996.6	8317.7	13133.6	22114.6	33200.5	43188.3
-20°	4839.0	5247.9	5415.4	5566.1	5671.4	5780.5	6076.2	8364.0	12017.6	18818.8	25475.5



REPORT NUMBER: P731577 (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°	4755.3	5135.5	5485.1	5648.0	5769.2	5777.2	5786.3	6061.7	7488.3	9779.6	13301.1
-25°	4697.3	5057.1	5463.9	5716.2	5800.1	5803.1	5757.4	5706.1	5867.9	6030.5	7317.2
-27.5°	4599.2	4989.4	5371.8	5679.4	5803.8	5799.5	5764.8	5730.7	5674.6	5638.1	5776.8
-30°	4479.1	4871.3	5227.2	5536.7	5721.0	5777.6	5753.9	5728.5	5711.2	5699.1	5674.2
-32.5°	3839.3	4726.1	5026.0	5306.8	5569.8	5685.0	5736.3	5724.4	5708.9	5702.2	5706.6
-35°	3136.1	4051.6	4830.2	5030.3	5258.6	5487.9	5649.7	5686.3	5702.5	5699.7	5706.8
-37.5°	2404.6	3229.4	3994.4	4633.9	4908.8	5147.2	5382.3	5538.1	5631.6	5647.8	5669.8
-40°	2072.4	2305.6	3030.3	3673.1	4207.8	4700.1	4949.1	5218.3	5428.4	5512.9	5557.3
-42.5°	1984.6	2077.2	2172.4	2643.8	3197.4	3666.7	4131.6	4593.7	4977.2	5194.2	5335.4
-45°	1946.3	1998.0	2052.9	2128.8	2196.8	2593.1	3020.0	3470.3	3974.3	4350.9	4701.6
-47.5°	1834.9	1938.9	1991.4	2023.6	2047.6	2099.9	2146.6	2273.5	2693.0	3022.9	3388.9
-50°	1687.5	1793.3	1879.1	1955.3	1981.4	1993.4	2007.5	2049.7	2116.7	2165.4	2239.1
-52.5°	1516.9	1616.1	1711.7	1793.4	1851.7	1901.9	1949.9	1983.1	2010.3	2038.4	2065.1
-55°	1353.8	1438.3	1520.3	1596.9	1666.5	1724.4	1781.4	1835.7	1886.6	1934.5	1979.2
-57.5°	1174.9	1259.3	1334.7	1403.4	1462.7	1511.0	1567.4	1627.2	1683.2	1733.0	1781.5
-60°	994.3	1071.2	1143.2	1208.3	1262.6	1305.2	1360.0	1413.6	1464.8	1511.1	1551.8
-62.5°	824.6	890.2	952.2	1009.7	1061.1	1106.9	1152.8	1198.7	1247.2	1290.5	1328.8
-65°	681.1	733.5	777.6	818.5	853.1	894.5	938.7	979.8	1022.5	1062.6	1099.2
-67.5°	537.0	581.4	618.4	653.8	682.7	711.7	744.6	776.0	806.1	837.2	867.7
-70°	405.2	436.5	459.9	484.2	512.6	539.1	565.6	592.2	617.2	644.6	673.0
-72.5°	302.5	317.6	333.0	352.7	369.6	388.9	407.9	428.3	449.0	469.0	487.6
-75°	242.1	251.8	263.4	273.0	280.2	289.6	300.2	313.1	326.0	338.9	351.1
-77.5°	215.4	222.1	227.4	231.5	235.0	239.8	244.6	253.6	263.3	274.1	285.1
-80°	194.7	199.0	202.7	205.7	208.3	212.3	216.3	224.2	232.5	240.5	248.3
-82.5°	173.7	177.3	180.3	183.0	185.4	189.2	193.0	199.2	205.6	213.4	221.2
-85°	153.3	156.5	159.4	161.8	164.1	167.1	170.0	175.8	181.7	187.9	194.1
-87.5°	136.1	138.8	141.4	143.4	145.4	147.9	150.4	155.0	159.6	164.6	169.7
-90°	2.7	2.7	2.7	2.3	1.8	1.8	1.8	1.8	1.8	1.4	0.9



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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°	156.1	156.5	156.5	156.5	156.5	156.5	156.1	155.6	151.2	146.7	142.7
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.2	2.6	2.6
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.1	2.7	3.1
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.7	2.7	2.8
75°	3.2	2.7	2.7	2.7	2.7	2.7	3.2	3.6	3.9	4.1	4.0
72.5°	21.9	23.5	24.4	25.0	24.4	23.5	21.9	20.2	18.4	16.5	14.4
70°	28.2	28.5	28.6	28.6	28.6	28.5	28.2	27.7	26.7	25.5	24.1
67.5°	34.7	35.5	35.7	35.8	35.7	35.5	34.7	33.5	31.4	29.5	27.9
65°	22.2	20.5	19.1	17.9	19.1	20.5	22.2	23.2	23.2	23.5	23.9
62.5°	13.4	12.8	12.6	12.5	12.6	12.8	13.4	13.7	13.6	14.3	15.6
60°	8.0	8.2	7.8	7.2	7.8	8.2	8.0	7.9	7.8	8.1	8.6
57.5°	5.8	6.2	6.7	7.2	6.7	6.2	5.8	5.5	5.2	5.2	5.4
55°	8.6	9.4	10.1	10.7	10.1	9.4	8.6	8.0	7.3	6.8	7.2
52.5°	25.0	22.4	21.6	22.4	21.6	22.4	25.0	27.7	29.0	29.0	24.9
50°	141.6	144.5	148.0	152.1	148.0	144.5	141.6	137.6	129.8	118.5	102.4
47.5°	334.4	328.1	322.2	320.2	322.2	328.1	334.4	330.3	316.0	295.2	292.0
45°	634.0	587.4	563.7	577.8	563.7	587.4	634.0	685.1	634.3	555.6	492.4
42.5°	1279.7	1348.8	1402.8	1428.5	1402.8	1348.8	1279.7	1220.5	1110.0	1002.1	880.2
40°	1604.4	1578.5	1592.4	1613.6	1592.4	1578.5	1604.4	1647.8	1620.1	1670.8	1644.8
37.5°	1975.2	1983.7	1921.4	1819.3	1921.4	1983.7	1975.2	1959.8	1991.2	1971.4	1939.9
35°	2154.9	2266.1	2474.2	2524.2	2474.2	2266.1	2154.9	2114.2	2095.0	2077.3	2051.5
32.5°	2380.0	2495.4	2530.8	2544.7	2530.8	2495.4	2380.0	2247.8	2195.4	2179.9	2168.1
30°	2649.0	2701.1	2688.0	2707.5	2688.0	2701.1	2649.0	2499.1	2383.0	2347.6	2316.7
27.5°	2943.7	2974.2	2964.2	2990.2	2964.2	2974.2	2943.7	2870.1	2703.4	2609.2	2519.7
25°	3704.4	3944.8	3932.2	3988.4	3932.2	3944.8	3704.4	3449.2	3142.5	2991.6	2820.5
22.5°	7504.3	8353.9	8862.7	9355.2	8862.7	8353.9	7504.3	5790.9	4383.5	3705.6	3277.5
20°	16767.2	19215.8	19748.9	19554.7	19748.9	19215.8	16767.2	12901.6	9414.6	5481.1	4229.4
17.5°	35991.3	45761.3	51007.3	51590.7	51007.3	45761.3	35991.3	25076.0	19536.1	12301.5	6895.8
15°	67733.4	84809.1	94504.3	95523.0	94504.3	84809.1	67733.4	51518.7	35823.9	23544.9	13714.9
12.5°	110727.7	137920.9	157883.9	160111.1	157883.9	137920.9	110727.7	85623.9	57358.0	38303.9	22966.9
10°	169620.0	206385.0	235457.5	242540.0	235457.5	206385.0	169620.0	127819.4	90171.9	55850.7	32274.4
7.5°	228400.4	270356.9	304573.2	312623.7	304573.2	270356.9	228400.4	172950.0	120493.8	77757.3	45555.3
5°	274351.0	328033.4	355338.6	364360.1	355338.6	328033.4	274351.0	213921.0	149137.3	96857.4	56882.5
2.5°	309376.7	360065.8	392121.3	405273.2	392121.3	360065.8	309376.7	245246.4	172511.2	111119.9	65741.9
0°	322897.4	372065.9	412886.8	438271.2	412886.8	372065.9	322897.4	257584.0	181613.9	117473.0	68171.3
-2.5°	317597.5	364938.2	399631.1	416097.5	399631.1	364938.2	317597.5	252948.9	178581.6	115960.0	69803.6
-5°	290804.8	338580.2	365403.8	373900.4	365403.8	338580.2	290804.8	229613.5	163123.9	107114.1	65004.3
-7.5°	245906.2	287959.2	319764.7	325465.9	319764.7	287959.2	245906.2	194394.1	136963.9	91028.4	56032.8
-10°	194895.6	231299.7	255563.2	260152.8	255563.2	231299.7	194895.6	150677.5	107738.6	71189.9	42272.7
-12.5°	138151.9	170129.1	189312.6	192852.4	189312.6	170129.1	138151.9	109946.3	78524.9	51241.9	32334.0
-15°	93881.1	113799.1	125426.1	126600.1	125426.1	113799.1	93881.1	73144.1	52698.0	35775.0	21395.9
-17.5°	58741.5	70589.2	77835.8	77903.0	77835.8	70589.2	58741.5	43188.3	33200.5	22114.6	13133.6
-20°	34007.8	39661.5	43715.8	43698.9	43715.8	39661.5	34007.8	25475.5	18818.8	12017.6	8364.0



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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°	17718.5	21078.8	23523.4	23411.6	23523.4	21078.8	17718.5	13301.1	9779.6	7488.3	6061.7
-25°	8700.6	9987.0	10843.3	10776.5	10843.3	9987.0	8700.6	7317.2	6030.5	5867.9	5706.1
-27.5°	5896.4	6037.9	6135.7	6145.8	6135.7	6037.9	5896.4	5776.8	5638.1	5674.6	5730.7
-30°	5664.5	5696.9	5731.0	5739.8	5731.0	5696.9	5664.5	5674.2	5699.1	5711.2	5728.5
-32.5°	5720.5	5745.8	5783.2	5806.8	5783.2	5745.8	5720.5	5706.6	5702.2	5708.9	5724.4
-35°	5724.6	5753.9	5797.2	5816.7	5797.2	5753.9	5724.6	5706.8	5699.7	5702.5	5686.3
-37.5°	5697.9	5733.9	5771.1	5788.1	5771.1	5733.9	5697.9	5669.8	5647.8	5631.6	5538.1
-40°	5596.9	5633.5	5660.6	5662.8	5660.6	5633.5	5596.9	5557.3	5512.9	5428.4	5218.3
-42.5°	5429.4	5474.8	5495.7	5492.0	5495.7	5474.8	5429.4	5335.4	5194.2	4977.2	4593.7
-45°	5034.3	5195.1	5274.1	5293.4	5274.1	5195.1	5034.3	4701.6	4350.9	3974.3	3470.3
-47.5°	3813.1	4048.9	4200.1	4260.3	4200.1	4048.9	3813.1	3388.9	3022.9	2693.0	2273.5
-50°	2335.4	2357.4	2371.8	2379.3	2371.8	2357.4	2335.4	2239.1	2165.4	2116.7	2049.7
-52.5°	2087.3	2093.6	2097.0	2097.5	2097.0	2093.6	2087.3	2065.1	2038.4	2010.3	1983.1
-55°	2011.5	2024.1	2032.0	2034.0	2032.0	2024.1	2011.5	1979.2	1934.5	1886.6	1835.7
-57.5°	1813.4	1820.7	1828.7	1833.6	1828.7	1820.7	1813.4	1781.5	1733.0	1683.2	1627.2
-60°	1576.2	1582.7	1584.0	1579.6	1584.0	1582.7	1576.2	1551.8	1511.1	1464.8	1413.6
-62.5°	1349.6	1355.7	1361.8	1364.1	1361.8	1355.7	1349.6	1328.8	1290.5	1247.2	1198.7
-65°	1116.2	1119.3	1120.7	1118.1	1120.7	1119.3	1116.2	1099.2	1062.6	1022.5	979.8
-67.5°	882.1	888.2	896.7	902.5	896.7	888.2	882.1	867.7	837.2	806.1	776.0
-70°	679.5	676.8	682.5	686.9	682.5	676.8	679.5	673.0	644.6	617.2	592.2
-72.5°	489.9	487.0	485.0	481.2	485.0	487.0	489.9	487.6	469.0	449.0	428.3
-75°	350.3	346.8	346.3	345.3	346.3	346.8	350.3	351.1	338.9	326.0	313.1
-77.5°	285.2	283.8	282.1	280.0	282.1	283.8	285.2	285.1	274.1	263.3	253.6
-80°	249.1	249.2	248.2	246.9	248.2	249.2	249.1	248.3	240.5	232.5	224.2
-82.5°	221.6	221.5	220.8	220.0	220.8	221.5	221.6	221.2	213.4	205.6	199.2
-85°	194.6	194.8	194.1	193.2	194.1	194.8	194.6	194.1	187.9	181.7	175.8
-87.5°	170.2	170.7	170.3	169.9	170.3	170.7	170.2	169.7	164.6	159.6	155.0
-90°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.8	1.8



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	138.6	136.0	133.3	132.0	130.6	127.9	125.2	121.7	118.1	113.6	109.1
87.5°	1.8	2.2	2.6	2.6	2.7	2.7	2.7	2.7	2.7	3.2	3.6
85°	2.6	2.6	2.7	3.1	3.4	3.3	3.3	3.2	3.2	3.4	3.6
82.5°	2.7	3.1	3.4	3.5	3.6	3.6	3.6	3.8	3.9	3.8	3.7
80°	3.4	3.5	3.6	3.6	3.6	3.8	3.9	4.2	4.5	4.4	4.4
77.5°	3.0	3.4	3.7	3.8	4.0	4.2	4.5	4.5	4.6	4.9	5.0
75°	4.1	4.9	5.3	5.5	5.4	4.7	4.7	5.0	5.1	5.2	5.4
72.5°	12.7	11.7	11.2	10.7	9.8	9.5	9.1	8.4	7.5	6.3	5.4
70°	23.0	22.1	21.4	21.5	21.4	20.8	18.3	15.3	13.0	11.3	9.1
67.5°	27.9	29.1	30.3	31.2	30.7	30.4	28.2	25.0	23.9	21.8	15.8
65°	25.6	28.0	29.4	30.0	30.4	32.1	34.4	33.7	35.1	33.6	26.2
62.5°	18.3	21.4	23.1	24.5	24.8	26.4	30.9	35.7	42.7	44.7	36.3
60°	10.6	12.5	14.7	16.9	18.3	21.5	26.7	34.6	44.6	43.9	40.4
57.5°	6.8	8.2	10.4	12.0	12.6	16.4	22.0	31.8	41.8	41.5	36.4
55°	9.1	10.5	11.5	13.4	14.4	17.2	20.2	28.2	37.8	40.8	39.1
52.5°	17.8	23.9	25.7	23.4	23.3	24.6	26.2	32.7	38.4	43.0	44.6
50°	91.2	100.5	88.7	71.0	73.7	51.7	57.5	56.1	53.6	56.1	54.5
47.5°	279.3	258.3	237.7	219.3	196.4	170.0	164.0	126.7	123.0	91.5	91.2
45°	481.6	457.5	423.2	394.2	379.3	349.9	330.1	301.8	245.3	219.1	152.1
42.5°	875.5	740.6	623.0	569.9	517.5	494.4	479.1	460.6	430.5	377.3	315.6
40°	1488.6	1329.3	1105.4	818.6	694.3	612.1	583.3	577.0	561.8	533.2	467.9
37.5°	1928.2	1837.6	1612.8	1364.5	1029.2	821.0	718.2	662.4	658.9	643.8	600.4
35°	2024.5	1997.1	1953.2	1772.7	1487.6	1314.9	972.5	804.9	737.9	725.8	711.2
32.5°	2151.3	2122.3	2083.4	2049.6	1976.3	1953.5	1529.3	1063.0	844.5	800.2	776.9
30°	2285.8	2266.9	2240.6	2229.0	2234.9	2226.6	2127.8	1535.2	1081.2	872.2	845.6
27.5°	2471.6	2420.0	2399.1	2419.1	2459.5	2483.0	2407.4	2114.6	1415.5	1068.9	914.5
25°	2728.8	2651.2	2621.5	2666.4	2738.1	2766.9	2716.8	2524.4	2039.6	1331.8	986.5
22.5°	3070.6	3009.4	2995.2	3089.8	3111.1	3141.3	3048.1	2932.7	2671.9	1728.8	1205.9
20°	3562.1	3419.8	3414.0	3433.9	3433.4	3418.9	3305.0	3200.9	2915.3	2239.3	1451.7
17.5°	4587.2	3828.3	3714.5	3675.5	3642.5	3562.3	3495.5	3335.0	3128.4	2670.4	1690.2
15°	6624.5	4684.0	4058.0	3969.9	3914.9	3828.0	3742.5	3557.2	3362.6	2937.4	2031.8
12.5°	12759.5	6008.0	4361.3	4158.1	4114.5	4045.6	3940.1	3850.1	3592.5	3178.7	2385.0
10°	17993.7	8714.7	5205.5	4376.9	4225.8	4131.7	4049.5	3958.4	3742.4	3396.6	2730.2
7.5°	25032.5	12721.9	6161.2	4597.2	4367.7	4210.3	4104.0	4013.3	3837.7	3489.3	2959.3
5°	30627.8	15615.2	6903.3	4814.0	4551.3	4363.9	4167.3	4070.6	3896.5	3524.6	3110.4
2.5°	33964.3	17477.8	7350.5	4938.6	4686.1	4565.3	4269.7	4126.9	3919.0	3548.6	3206.1
0°	35924.2	18399.0	7800.6	5003.6	4749.6	4677.1	4431.2	4179.8	3910.6	3556.4	3252.3
-2.5°	37466.2	19338.9	8026.6	5130.6	4847.5	4767.2	4613.6	4384.3	3955.8	3566.1	3279.4
-5°	35743.3	18399.0	8001.8	5209.1	4932.3	4854.6	4732.5	4517.9	4024.4	3587.7	3259.5
-7.5°	31570.2	15900.5	7528.8	5275.6	5022.0	4940.5	4813.6	4601.6	4165.6	3697.9	3213.7
-10°	24779.1	12138.4	6663.5	5338.4	5138.1	5031.3	4892.7	4626.0	4224.7	3785.0	3117.4
-12.5°	18209.6	9232.6	5850.8	5364.9	5272.7	5135.4	4964.1	4617.2	4261.2	3902.0	3053.5
-15°	11791.6	7300.3	5742.2	5460.5	5358.8	5205.1	5000.1	4593.4	4269.3	3973.3	2902.9
-17.5°	8317.7	5996.6	5596.2	5503.5	5391.5	5243.6	4937.9	4565.3	4233.2	3769.5	2593.0
-20°	6076.2	5780.5	5671.4	5566.1	5415.4	5247.9	4839.0	4512.3	4137.5	3350.1	2321.6





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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°	5786.3	5777.2	5769.2	5648.0	5485.1	5135.5	4755.3	4426.5	3995.6	2935.9	2057.7
-25°	5757.4	5803.1	5800.1	5716.2	5463.9	5057.1	4697.3	4278.7	3525.8	2575.5	1812.5
-27.5°	5764.8	5799.5	5803.8	5679.4	5371.8	4989.4	4599.2	4043.2	2947.9	2191.7	1804.4
-30°	5753.9	5777.6	5721.0	5536.7	5227.2	4871.3	4479.1	3428.8	2494.7	1899.1	1780.8
-32.5°	5736.3	5685.0	5569.8	5306.8	5026.0	4726.1	3839.3	2822.6	2069.6	1865.7	1761.9
-35°	5649.7	5487.9	5258.6	5030.3	4830.2	4051.6	3136.1	2287.5	1943.9	1829.2	1742.0
-37.5°	5382.3	5147.2	4908.8	4633.9	3994.4	3229.4	2404.6	2028.3	1889.3	1806.2	1686.9
-40°	4949.1	4700.1	4207.8	3673.1	3030.3	2305.6	2072.4	1947.8	1864.9	1755.4	1608.9
-42.5°	4131.6	3666.7	3197.4	2643.8	2172.4	2077.2	1984.6	1913.8	1811.0	1666.7	1505.8
-45°	3020.0	2593.1	2196.8	2128.8	2052.9	1998.0	1946.3	1839.5	1712.8	1553.6	1393.9
-47.5°	2146.6	2099.9	2047.6	2023.6	1991.4	1938.9	1834.9	1722.8	1576.9	1423.3	1275.6
-50°	2007.5	1993.4	1981.4	1955.3	1879.1	1793.3	1687.5	1576.2	1435.6	1293.8	1153.7
-52.5°	1949.9	1901.9	1851.7	1793.4	1711.7	1616.1	1516.9	1417.0	1294.1	1160.3	1028.1
-55°	1781.4	1724.4	1666.5	1596.9	1520.3	1438.3	1353.8	1254.5	1144.3	1020.2	900.4
-57.5°	1567.4	1511.0	1462.7	1403.4	1334.7	1259.3	1174.9	1081.4	988.7	878.3	771.4
-60°	1360.0	1305.2	1262.6	1208.3	1143.2	1071.2	994.3	913.5	827.9	748.9	666.2
-62.5°	1152.8	1106.9	1061.1	1009.7	952.2	890.2	824.6	763.6	700.6	632.5	556.8
-65°	938.7	894.5	853.1	818.5	777.6	733.5	681.1	627.2	570.4	510.1	444.4
-67.5°	744.6	711.7	682.7	653.8	618.4	581.4	537.0	489.7	443.5	396.8	345.3
-70°	565.6	539.1	512.6	484.2	459.9	436.5	405.2	370.6	331.5	299.3	270.1
-72.5°	407.9	388.9	369.6	352.7	333.0	317.6	302.5	283.9	261.5	236.7	216.5
-75°	300.2	289.6	280.2	273.0	263.4	251.8	242.1	231.2	219.8	207.8	195.7
-77.5°	244.6	239.8	235.0	231.5	227.4	222.1	215.4	206.4	197.6	187.8	177.8
-80°	216.3	212.3	208.3	205.7	202.7	199.0	194.7	187.2	179.3	170.2	161.5
-82.5°	193.0	189.2	185.4	183.0	180.3	177.3	173.7	167.2	160.7	153.4	146.2
-85°	170.0	167.1	164.1	161.8	159.4	156.5	153.3	148.2	143.1	136.9	130.7
-87.5°	150.4	147.9	145.4	143.4	141.4	138.8	136.1	132.2	128.3	123.1	117.9
-90°	1.8	1.8	1.8	2.3	2.7	2.7	2.7	2.7	2.7	3.2	3.6





REPORT NUMBER: P731577 (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°
90°	104.7	100.2	96.2	92.1	88.6	85.0	81.0	76.9	71.6	66.2	59.5
87.5°	3.6	3.6	3.9	4.1	4.1	4.1	4.3	4.5	4.5	4.5	4.6
85°	3.8	3.9	4.2	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.8
82.5°	4.1	4.4	4.4	4.5	4.8	4.9	4.8	4.7	4.7	4.6	4.9
80°	4.4	4.5	4.7	4.8	5.1	5.4	5.3	5.2	5.2	5.2	5.3
77.5°	4.8	4.8	5.1	5.3	5.3	5.5	5.6	5.6	5.8	5.8	5.7
75°	5.4	5.3	5.3	5.5	5.5	5.5	5.8	6.0	6.2	6.3	6.0
72.5°	5.4	5.5	5.6	5.6	5.9	6.0	6.2	6.4	6.6	6.7	6.4
70°	7.0	6.0	6.0	6.2	6.3	6.5	6.7	6.9	7.0	7.1	6.9
67.5°	9.9	8.3	7.3	6.9	6.9	7.1	7.2	7.5	7.6	7.5	7.3
65°	19.3	13.4	8.8	8.4	7.8	7.9	8.0	8.2	8.3	8.4	7.8
62.5°	28.3	20.9	15.3	11.2	9.7	10.0	9.0	9.6	9.2	9.4	8.8
60°	37.1	28.7	22.5	17.8	14.3	12.9	12.3	11.2	11.0	10.5	10.0
57.5°	36.4	35.1	31.6	25.5	21.8	18.5	16.6	15.0	13.3	12.7	11.4
55°	35.8	35.8	39.6	35.7	31.4	26.3	23.1	20.1	16.6	15.3	13.0
52.5°	41.7	42.6	45.8	47.8	44.6	36.6	33.3	25.7	22.8	18.2	15.8
50°	51.8	56.4	57.0	62.0	59.4	54.1	44.6	36.8	29.6	22.3	18.9
47.5°	78.5	82.8	78.4	82.6	78.6	74.3	62.7	50.0	36.9	29.1	22.0
45°	150.5	125.6	121.6	114.6	105.6	100.5	84.8	64.4	50.2	36.7	25.3
42.5°	251.0	215.8	195.6	153.4	148.9	131.1	110.7	87.5	64.5	44.8	30.9
40°	392.1	339.6	292.4	244.5	202.9	165.6	143.8	113.8	79.7	55.2	38.2
37.5°	529.1	466.7	412.5	341.3	271.7	222.1	180.2	141.9	99.3	70.0	45.9
35°	643.1	584.9	512.1	435.8	362.7	279.7	219.3	173.5	125.6	85.5	53.7
32.5°	736.6	677.7	594.3	517.1	435.1	337.2	266.8	206.9	152.3	101.8	61.9
30°	806.5	750.4	671.2	581.0	493.9	397.0	314.4	238.8	179.3	118.6	71.3
27.5°	878.9	825.0	745.5	646.0	544.8	448.5	353.5	269.0	206.5	135.9	83.7
25°	951.3	896.0	822.4	717.8	595.6	488.9	389.1	297.6	232.2	154.0	95.5
22.5°	1014.6	961.5	899.0	793.6	653.1	528.0	422.4	328.7	249.7	170.7	106.5
20°	1072.8	1017.0	970.7	857.8	715.6	575.0	455.0	352.8	265.9	185.9	116.8
17.5°	1155.9	1066.5	1008.1	907.1	774.5	623.2	488.7	375.7	280.8	199.7	126.4
15°	1346.1	1115.0	1044.9	950.6	822.4	668.6	522.5	397.7	294.3	212.1	134.9
12.5°	1520.0	1161.0	1083.5	987.8	858.5	708.4	555.6	418.4	306.4	223.7	142.0
10°	1695.7	1205.6	1121.3	1023.9	889.4	742.8	587.4	439.9	321.4	234.7	148.4
7.5°	1888.4	1249.4	1156.6	1058.4	916.1	770.8	615.2	464.3	335.9	244.7	154.0
5°	2063.4	1289.8	1193.2	1096.8	943.1	793.0	638.9	486.8	349.2	253.4	158.7
2.5°	2186.0	1323.9	1229.2	1132.9	966.4	810.9	658.9	506.9	361.0	260.7	162.5
0°	2277.3	1354.2	1262.1	1164.6	985.7	824.7	675.3	524.2	371.2	266.5	165.5
-2.5°	2273.5	1379.6	1289.0	1195.2	1021.4	844.9	685.9	533.3	381.9	274.6	171.5
-5°	2234.6	1401.9	1313.4	1221.0	1051.5	860.6	693.0	539.4	390.6	281.1	176.5
-7.5°	2186.6	1427.0	1336.4	1241.8	1074.5	871.2	696.6	542.7	397.2	285.7	180.4
-10°	2107.4	1451.6	1357.8	1251.8	1079.2	877.5	697.8	543.2	401.7	288.6	183.2
-12.5°	2009.5	1474.1	1375.9	1255.9	1076.7	880.5	702.4	542.6	403.4	289.4	184.5
-15°	1879.4	1504.2	1398.1	1254.7	1069.5	879.3	702.0	538.8	400.2	287.3	184.5
-17.5°	1695.8	1526.8	1419.2	1250.4	1058.5	874.3	696.1	530.8	394.6	282.0	182.6
-20°	1674.0	1547.6	1430.9	1236.8	1043.0	863.4	684.4	518.4	386.6	274.9	179.2



REPORT NUMBER: P731577 (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°	1689.2	1571.2	1425.4	1214.1	1024.1	847.3	667.7	501.9	376.1	266.0	174.5
-25°	1692.4	1593.9	1417.2	1201.8	1002.2	824.9	648.1	485.7	363.2	255.4	168.7
-27.5°	1691.1	1589.8	1404.4	1175.8	978.1	797.2	626.4	474.3	352.6	242.9	161.7
-30°	1687.1	1547.0	1359.1	1137.9	944.9	766.1	601.2	460.1	340.7	233.0	153.5
-32.5°	1663.8	1499.2	1300.9	1095.1	905.4	730.9	573.4	442.7	326.2	224.6	148.3
-35°	1602.7	1434.3	1241.4	1045.8	861.7	696.9	546.1	422.3	309.1	214.2	143.9
-37.5°	1535.9	1353.7	1181.1	991.9	813.9	658.8	520.8	400.1	289.4	201.7	138.9
-40°	1439.1	1265.9	1101.6	931.6	764.9	616.2	491.5	375.2	271.6	187.2	132.7
-42.5°	1337.6	1173.8	1017.4	860.4	712.3	577.8	458.6	347.0	252.6	176.2	125.3
-45°	1234.7	1078.8	929.7	790.3	655.9	534.9	422.9	316.5	231.0	166.3	119.6
-47.5°	1126.0	981.0	844.1	715.5	602.5	487.7	381.6	289.2	207.2	154.9	117.3
-50°	1013.9	881.2	757.5	645.9	541.6	436.7	338.7	259.0	192.3	142.1	114.6
-52.5°	900.6	780.5	674.7	576.1	477.8	381.1	299.7	226.9	176.0	135.3	111.5
-55°	785.0	687.4	595.4	502.9	410.8	331.4	258.1	205.3	158.3	131.0	108.1
-57.5°	684.7	599.0	511.9	425.9	349.7	281.3	226.1	182.6	149.8	126.3	105.9
-60°	585.6	505.1	424.6	356.1	291.8	239.3	199.5	164.0	143.6	121.5	103.4
-62.5°	482.6	411.1	349.0	289.5	244.6	207.6	175.1	155.6	136.6	117.9	100.5
-65°	386.0	328.8	275.7	241.6	207.9	180.2	164.7	146.7	130.8	114.0	97.4
-67.5°	293.7	262.1	230.7	200.1	182.4	168.0	153.6	139.3	125.1	109.7	94.1
-70°	240.9	212.7	194.7	181.5	168.5	155.8	144.7	132.4	119.2	105.5	90.5
-72.5°	203.3	190.4	178.0	166.2	156.1	145.9	136.0	125.3	113.6	101.1	86.8
-75°	183.6	173.1	163.6	154.3	145.0	135.9	127.6	118.5	107.7	96.4	82.9
-77.5°	168.2	159.0	150.6	142.5	134.7	127.1	119.6	111.4	101.6	91.3	78.7
-80°	153.6	145.9	138.6	131.4	124.7	118.2	111.1	103.9	95.0	86.0	74.4
-82.5°	139.6	133.1	126.4	119.7	113.8	107.9	101.9	96.0	88.2	80.4	70.3
-85°	125.1	119.5	113.6	107.7	102.5	97.4	93.2	88.8	82.3	75.7	66.8
-87.5°	113.4	108.8	104.0	99.3	95.3	91.2	87.1	82.9	77.0	71.0	63.2
-90°	3.6	3.6	3.6	3.6	3.6	3.6	4.1	4.5	4.5	4.5	4.5



REPORT NUMBER: P731577 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	52.8	43.8	34.9	24.6	14.3	9.4	4.5
87.5°	4.7	4.7	4.7	4.7	4.7	4.6	4.5
85°	5.0	4.9	4.8	4.9	4.8	4.7	4.5
82.5°	5.2	5.1	5.0	5.0	5.0	4.9	4.5
80°	5.4	5.3	5.1	5.2	5.1	5.0	4.5
77.5°	5.7	5.5	5.3	5.4	5.3	5.1	4.5
75°	5.9	5.8	5.5	5.6	5.5	5.2	4.5
72.5°	6.2	6.1	5.8	5.8	5.6	5.3	4.5
70°	6.5	6.4	6.2	6.0	5.8	5.4	4.5
67.5°	7.0	6.8	6.5	6.2	6.0	5.6	4.5
65°	7.6	7.2	6.8	6.5	6.2	5.7	4.5
62.5°	8.1	7.7	7.1	6.7	6.3	5.8	4.5
60°	8.7	8.2	7.4	6.9	6.5	5.9	4.5
57.5°	10.2	8.8	8.0	7.2	6.8	6.0	4.5
55°	11.8	9.3	8.6	7.4	7.1	6.1	4.5
52.5°	13.6	10.1	9.3	7.6	7.3	6.3	4.5
50°	15.5	12.0	10.0	7.8	7.6	6.4	4.5
47.5°	17.6	13.9	10.8	8.1	8.0	6.5	4.5
45°	20.5	16.0	11.6	8.7	8.3	6.6	4.5
42.5°	23.4	18.1	12.4	9.4	8.7	6.7	4.5
40°	26.5	20.2	13.7	10.3	9.1	6.8	4.5
37.5°	29.8	22.4	15.4	11.3	9.5	6.9	4.5
35°	33.3	25.0	17.1	12.4	9.9	7.0	4.5
32.5°	37.7	27.7	18.7	13.5	10.3	7.1	4.5
30°	44.3	30.4	20.4	14.7	10.8	7.2	4.5
27.5°	50.9	33.1	22.6	15.9	11.2	7.3	4.5
25°	57.3	35.8	24.7	17.1	11.7	7.4	4.5
22.5°	63.7	38.6	26.8	18.3	12.2	7.5	4.5
20°	69.8	41.5	28.9	19.5	12.6	7.6	4.5
17.5°	75.4	44.3	30.8	20.8	13.1	7.7	4.5
15°	80.4	46.9	32.7	22.0	13.6	7.8	4.5
12.5°	85.0	49.5	34.5	23.2	14.0	7.8	4.5
10°	89.2	51.8	36.2	24.4	14.5	7.9	4.5
7.5°	92.8	54.1	37.8	25.5	14.9	8.0	4.5
5°	96.1	56.2	39.3	26.6	15.3	8.0	4.5
2.5°	98.8	58.1	40.7	27.6	15.7	8.1	4.5
0°	101.1	59.9	42.0	28.6	16.1	8.1	4.5
-2.5°	104.3	62.4	43.8	29.9	16.9	8.4	4.5
-5°	107.1	64.7	45.6	31.0	17.8	8.8	4.5
-7.5°	109.3	66.8	47.2	32.2	18.5	9.1	4.5
-10°	110.9	68.7	48.7	33.2	19.3	9.4	4.5
-12.5°	112.0	70.4	50.0	34.1	20.0	9.7	4.5
-15°	112.6	71.9	51.3	35.0	20.6	10.0	4.5
-17.5°	112.6	73.1	52.3	35.8	21.2	10.3	4.5
-20°	112.1	74.2	53.3	36.5	21.7	10.6	4.5



REPORT NUMBER: P731577 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-2S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	111.3	74.9	54.1	37.1	22.2	10.8	4.5
-25°	109.7	75.6	54.7	37.6	22.7	11.0	4.5
-27.5°	107.6	76.1	55.1	38.0	23.0	11.2	4.5
-30°	104.7	76.3	55.5	38.4	23.3	11.4	4.5
-32.5°	101.2	76.3	55.9	38.6	23.6	11.6	4.5
-35°	99.8	76.1	56.2	38.8	23.8	11.7	4.5
-37.5°	99.2	75.8	56.3	38.9	23.9	11.9	4.5
-40°	98.3	75.8	56.3	38.9	23.9	12.0	4.5
-42.5°	97.2	75.6	56.2	38.8	23.9	12.0	4.5
-45°	95.6	75.1	56.2	38.8	23.9	12.1	4.5
-47.5°	93.7	74.6	56.0	38.6	23.7	12.1	4.5
-50°	92.5	73.8	55.6	38.4	23.5	12.1	4.5
-52.5°	91.2	72.8	55.1	38.2	23.2	12.1	4.5
-55°	89.6	71.8	54.5	37.8	22.9	12.1	4.5
-57.5°	87.8	70.6	53.7	37.3	22.5	12.0	4.5
-60°	85.8	69.2	52.8	36.7	22.0	11.9	4.5
-62.5°	83.6	67.6	51.8	36.0	21.7	11.8	4.5
-65°	81.3	65.8	50.6	35.2	21.2	11.7	4.5
-67.5°	78.6	63.8	49.3	34.3	20.8	11.5	4.5
-70°	75.8	61.7	47.8	33.3	20.2	11.3	4.5
-72.5°	72.9	59.5	46.3	32.4	19.6	11.2	4.5
-75°	69.8	57.1	44.6	31.5	19.0	11.0	4.5
-77.5°	66.6	54.6	43.1	30.5	18.3	10.7	4.5
-80°	63.2	52.4	41.7	29.5	17.6	10.5	4.5
-82.5°	60.6	50.4	40.1	28.4	16.8	10.2	4.5
-85°	58.1	48.3	38.5	27.2	16.0	10.0	4.5
-87.5°	55.5	46.1	36.7	25.9	15.2	9.7	4.5
-90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5

(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

