

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: P731408 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-2S-CV5**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731408 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-57-70-2S-CV5  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 2S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

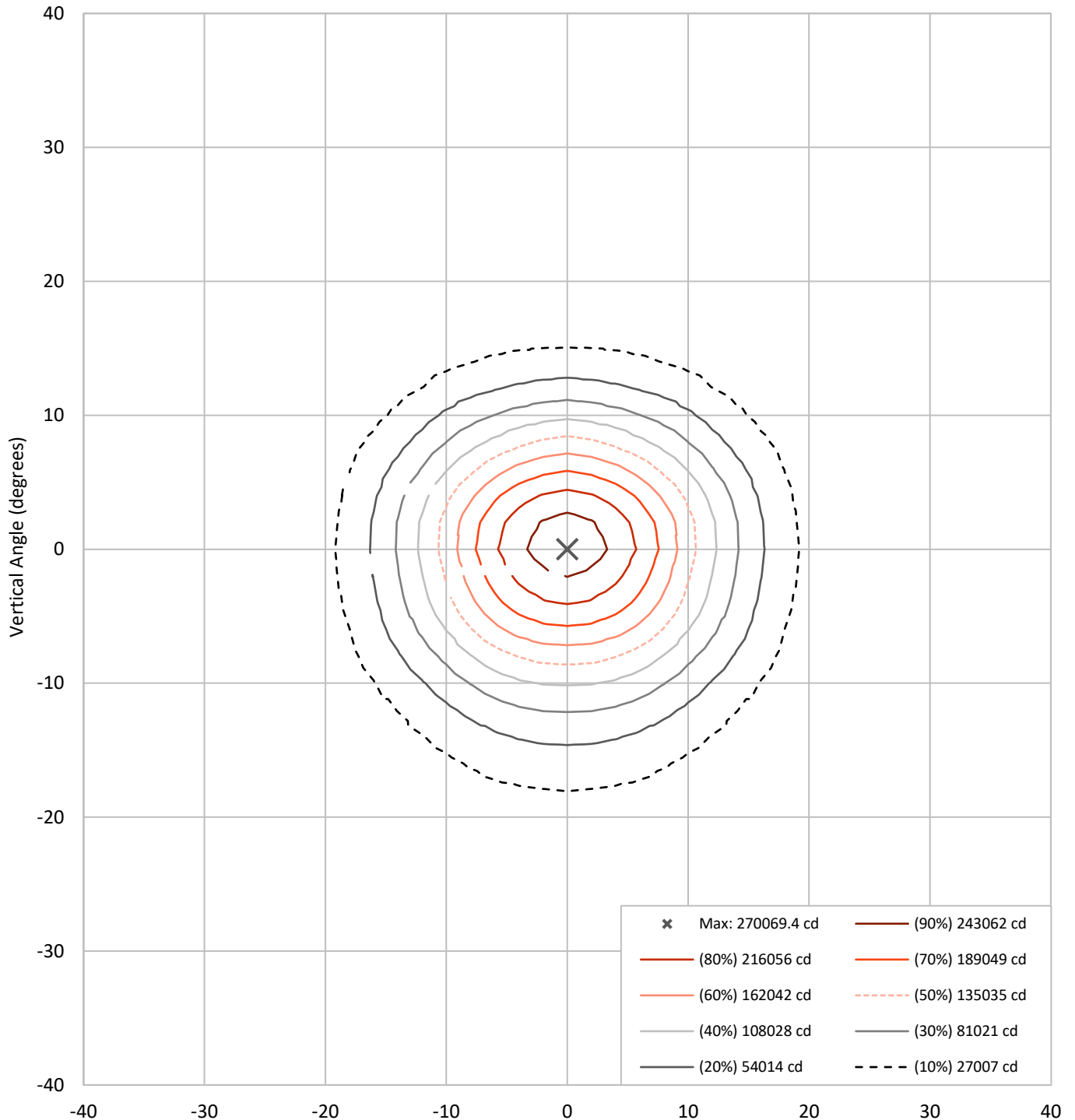
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	36426.8 lumens	Max Intensity:	270069.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	104.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.3°H x 17°V	Field Angle (10%):	38.4°H x 32.9°V
Beam Lumens:	15941.2 lumens	Field Lumens:	30855.4 lumens
Beam Efficiency:	43.8%	Field Efficiency:	84.7%

Input Watts (W): 348.5  
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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CATALOG NUMBER: EPH-LS-08-0320N-57-70-2S-CV5

### Iso-Candela Plot





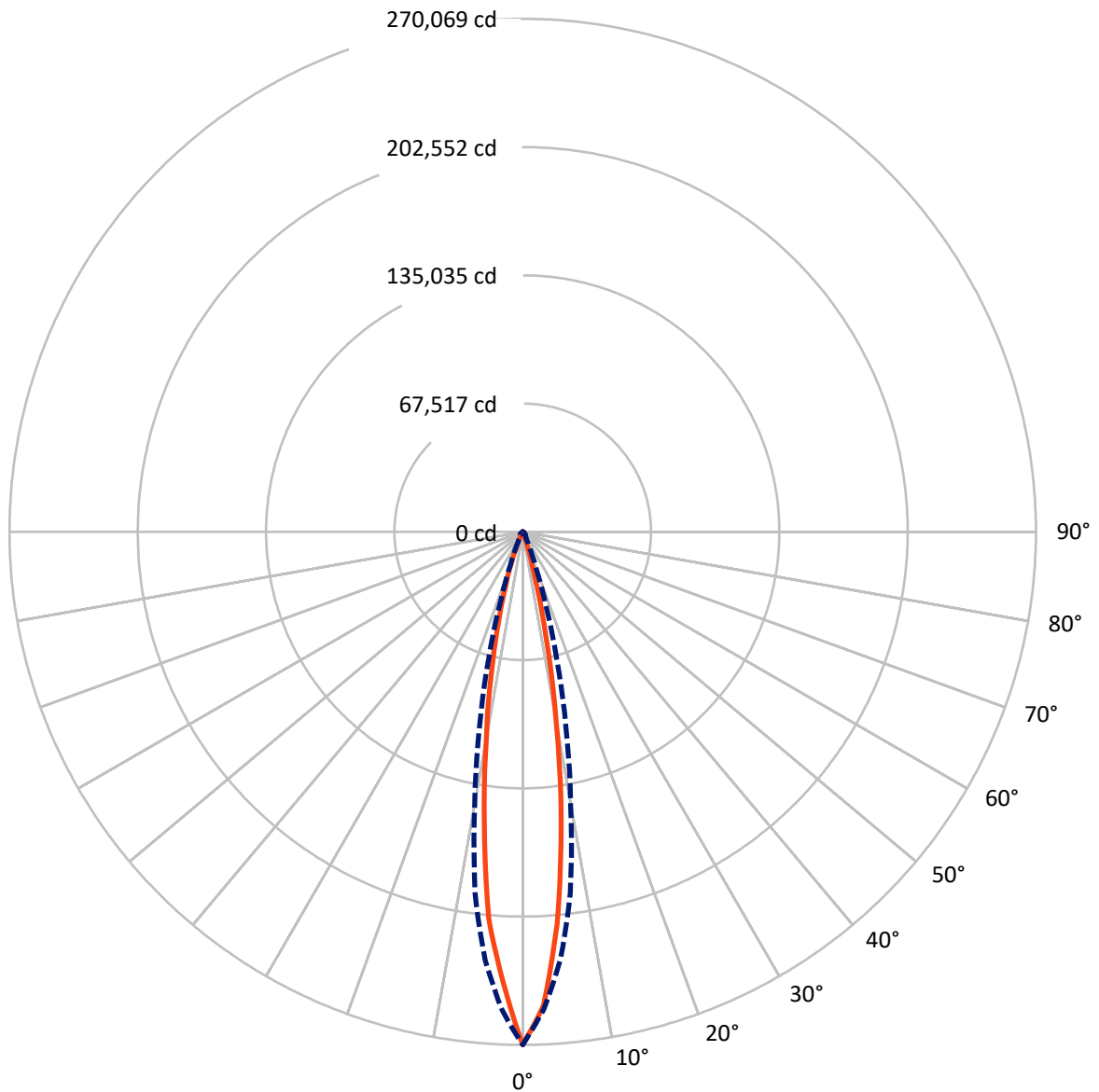
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### Lumen Table

90	0.1	0.3	0.4	0.4	0.6	0.4	0.4	0.3	0.1								
80	0.1	0.3	0.4	0.4	0.6	0.4	0.4	0.3	0.1								
70	0.1	0.1	0.1	0.4	0.5	0.3	0.1	0.1	0.1	0.1	0.3	0.5	0.4	0.1	0.1	0.1	
60		0.1	0.2	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.2	0.1		
50	0.1	0.1	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.1	0.1	
40		0.2	0.4	0.5	1.0	1.3	1.5	1.8	1.8	1.5	1.3	1.0	0.5	0.4	0.2		
30	0.2	0.3	0.9	2.3	4.5	5.8	10.3	21.9	21.9	10.3	5.8	4.5	2.3	0.9	0.3	0.2	
20		0.7	3.4	11.2	23.4	42.5	293.1	902.7	902.7	293.1	42.5	23.4	11.2	3.4	0.7		
10	0.2	1.3	7.0	27.2	54.6	173.3	1692.0	5029.5	5029.5	1692.0	173.3	54.6	27.2	7.0	1.3	0.2	
0		1.7	8.3	31.8	62.3	180.8	1727.0	5056.6	5056.6	1727.0	180.8	62.3	31.8	8.3	1.7		
-10	0.4	1.8	7.2	23.8	48.1	78.0	476.9	1416.7	1416.7	476.9	78.0	48.1	23.8	7.2	1.8	0.4	
-20		1.7	6.1	14.1	35.8	50.8	76.8	161.3	161.3	76.8	50.8	35.8	14.1	6.1	1.7		
-30	0.3	1.5	4.9	9.8	21.9	41.9	53.4	57.4	57.4	53.4	41.9	21.9	9.8	4.9	1.5	0.3	
-40		1.1	3.6	7.8	13.3	21.4	34.8	45.3	45.3	34.8	21.4	13.3	7.8	3.6	1.1		
-50	0.2	0.5	2.1	4.9	9.0	13.1	16.1	17.9	17.9	16.1	13.1	9.0	4.9	2.1	0.5	0.2	
-60		0.2	0.7	2.1	4.0	6.2	8.3	9.7	9.7	8.3	6.2	4.0	2.1	0.7	0.2		
-70	0.1	0.7	1.8	4.6	7.1	4.6	1.8	0.7	0.1							0.1	
-80		0.1	0.7	1.8	4.6	7.1	4.6	1.8	0.7	0.1							
-90	0.1	0.7	1.8	4.6	7.1	4.6	1.8	0.7	0.1								

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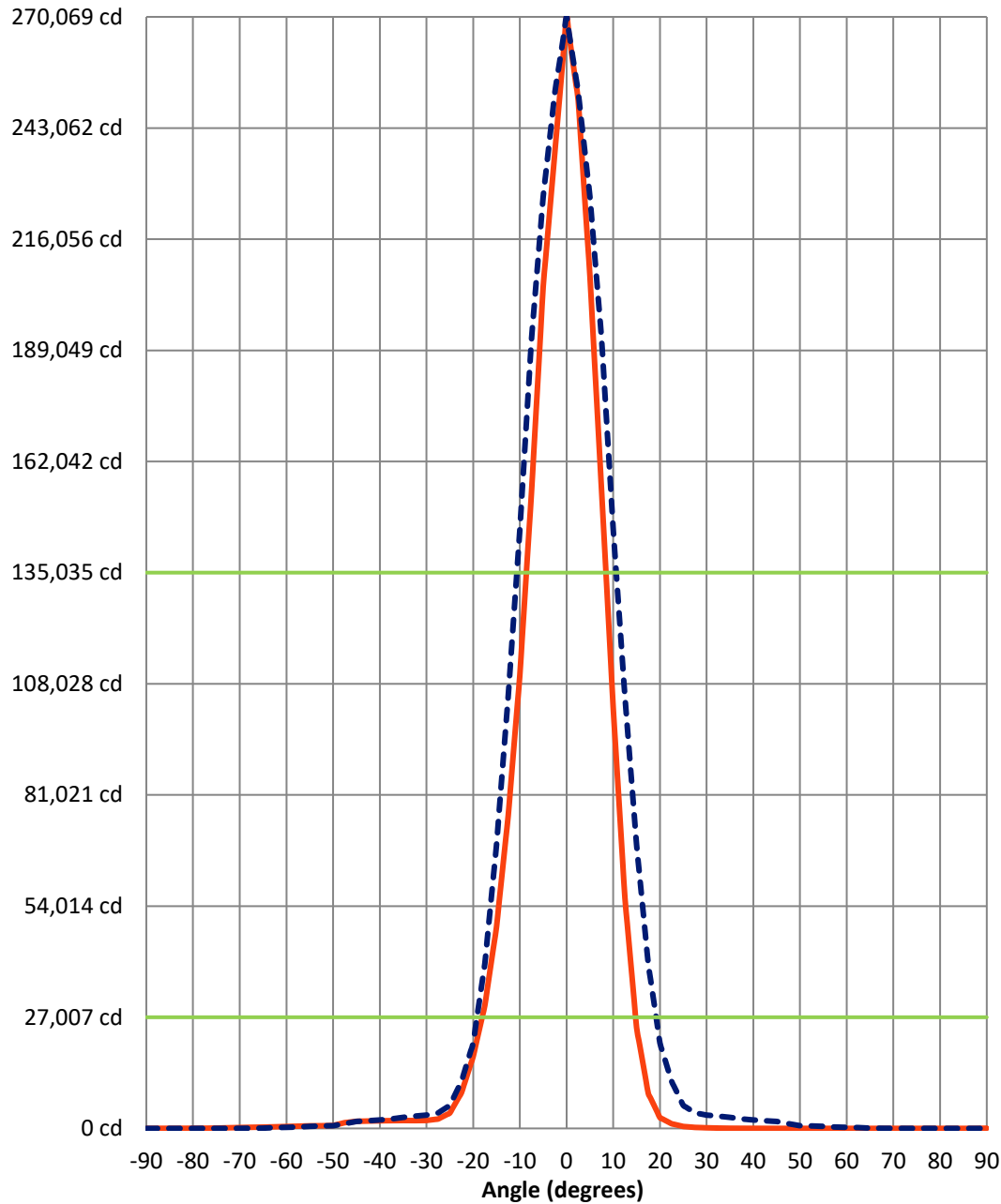
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 21.3°  
V Angle: 17°  
Lumens: 15941.2  
Efficiency: 43.8%

**Field:**  
H Angle: 38.4°  
V Angle: 32.9°  
Lumens: 30855.4  
Efficiency: 84.7%

**Spill:**  
Lumens: 5571.4  
Efficiency: 15.3%

— 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	4.5	4.5	4.8	5.1	5.3	5.6	5.9	6.2	6.4	6.7
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.3	4.1	4.0	3.9
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.4	4.3	4.3	4.3
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
75°	4.5	4.5	4.5	4.5	4.5	4.6	4.5	4.5	4.5	4.5	4.5
72.5°	4.5	4.5	4.5	4.5	4.6	4.7	4.6	4.5	4.5	4.5	4.5
70°	4.5	4.5	4.5	4.5	4.7	4.7	4.6	4.5	4.5	4.5	4.5
67.5°	4.5	4.5	4.5	4.6	4.8	4.8	4.6	4.5	4.5	4.7	4.6
65°	4.5	4.5	4.5	4.7	4.9	4.9	4.6	4.5	4.7	4.9	4.7
62.5°	4.5	4.5	4.5	4.9	5.1	4.9	4.7	4.7	5.0	5.0	4.8
60°	4.5	4.5	4.5	5.0	5.2	5.0	4.7	5.0	5.3	5.1	4.8
57.5°	4.5	4.5	4.6	5.1	5.2	5.0	5.0	5.3	5.4	5.1	5.2
55°	4.5	4.5	4.7	5.2	5.2	5.0	5.2	5.6	5.4	5.3	5.6
52.5°	4.5	4.5	4.7	5.3	5.3	5.1	5.5	5.7	5.5	5.7	6.1
50°	4.5	4.5	4.8	5.4	5.3	5.3	5.8	5.8	5.6	6.1	7.0
47.5°	4.5	4.5	4.9	5.5	5.3	5.5	6.0	6.0	6.0	6.5	7.9
45°	4.5	4.5	5.0	5.6	5.4	5.7	6.2	6.1	6.4	7.0	8.5
42.5°	4.5	4.5	5.0	5.6	5.4	6.0	6.3	6.4	6.8	7.4	9.4
40°	4.5	4.5	5.1	5.6	5.5	6.2	6.5	6.8	7.2	7.7	10.2
37.5°	4.5	4.5	5.1	5.6	5.7	6.4	6.7	7.1	7.8	8.5	10.9
35°	4.5	4.5	5.2	5.7	5.8	6.5	7.0	7.5	8.4	9.7	11.3
32.5°	4.5	4.5	5.3	5.7	6.0	6.7	7.2	7.8	9.1	10.9	12.3
30°	4.5	4.5	5.3	5.8	6.1	6.9	7.5	8.2	9.8	12.1	13.5
27.5°	4.5	4.5	5.4	5.8	6.2	7.1	7.8	8.7	10.6	13.3	14.8
25°	4.5	4.5	5.4	5.9	6.3	7.3	8.0	9.3	11.6	14.5	16.4
22.5°	4.5	4.5	5.4	6.0	6.4	7.4	8.3	9.9	12.6	15.7	19.5
20°	4.5	4.5	5.5	6.0	6.5	7.5	8.5	10.5	13.6	17.0	22.9
17.5°	4.5	4.5	5.5	6.1	6.6	7.6	8.7	11.1	14.5	18.3	26.6
15°	4.5	4.5	5.5	6.2	6.6	7.7	8.9	11.6	15.4	19.7	30.4
12.5°	4.5	4.5	5.5	6.3	6.7	7.8	9.2	12.1	16.3	21.1	34.4
10°	4.5	4.5	5.6	6.4	6.7	7.8	9.4	12.4	17.2	23.5	39.1
7.5°	4.5	4.5	5.6	6.5	6.7	7.8	9.6	12.8	18.0	26.1	45.3
5°	4.5	4.5	5.6	6.5	6.7	7.9	9.8	13.1	18.8	28.7	51.5
2.5°	4.5	4.5	5.6	6.6	6.7	7.9	9.9	13.3	19.5	31.3	57.4
0°	4.5	4.5	5.6	6.7	6.7	7.9	10.1	13.5	20.2	33.7	62.9
-2.5°	4.5	4.5	5.6	6.8	6.9	8.1	11.0	16.1	25.4	41.7	73.1
-5°	4.5	4.5	5.7	6.8	7.1	8.4	11.8	18.6	30.5	49.3	82.6
-7.5°	4.5	4.6	5.7	6.9	7.3	8.6	12.6	20.9	35.1	56.4	91.2
-10°	4.5	4.6	5.8	7.0	7.5	8.8	13.3	23.0	39.3	62.9	99.0
-12.5°	4.5	4.6	5.8	7.0	7.7	9.0	13.8	24.7	43.0	68.6	105.6
-15°	4.5	4.6	5.8	7.1	7.8	9.1	14.3	26.0	46.2	73.5	111.1
-17.5°	4.5	4.7	5.8	7.1	8.0	9.3	14.5	27.4	49.2	77.6	115.4
-20°	4.5	4.7	5.8	7.1	8.1	9.5	14.8	28.7	51.4	80.8	118.4



REPORT NUMBER: P731408 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-2S-CV5

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.5	4.7	5.9	7.1	8.2	9.6	15.2	29.3	52.8	83.1	120.0
-25°	4.5	4.7	5.9	7.1	8.3	9.8	15.2	29.3	53.3	84.5	120.3
-27.5°	4.5	4.7	5.9	7.1	8.4	10.0	15.0	28.6	53.0	84.9	121.4
-30°	4.5	4.7	5.9	7.1	8.4	10.1	14.4	27.1	52.1	84.3	121.2
-32.5°	4.5	4.7	5.8	7.1	8.5	10.2	13.5	26.1	50.3	82.5	119.8
-35°	4.5	4.8	5.8	7.1	8.5	10.2	13.2	25.0	47.5	79.4	117.0
-37.5°	4.5	4.8	5.8	7.1	8.5	10.1	13.2	23.4	43.6	75.0	108.7
-40°	4.5	4.8	5.8	7.0	8.5	10.1	13.0	21.2	38.6	69.5	99.2
-42.5°	4.5	4.8	5.8	7.0	8.4	10.1	12.8	18.5	34.6	60.8	88.7
-45°	4.5	4.8	5.7	6.9	8.3	10.0	12.4	16.5	30.9	51.2	77.3
-47.5°	4.5	4.8	5.7	6.9	8.3	9.9	11.9	15.9	26.5	41.0	65.8
-50°	4.5	4.8	5.7	6.8	8.1	9.8	11.6	15.1	20.9	34.7	53.6
-52.5°	4.5	4.8	5.6	6.7	8.0	9.6	11.4	14.2	18.2	28.0	41.4
-55°	4.5	4.8	5.6	6.6	7.9	9.4	11.2	13.2	16.7	21.1	33.6
-57.5°	4.5	4.7	5.5	6.5	7.7	9.2	10.9	12.8	15.2	18.3	25.5
-60°	4.5	4.7	5.5	6.4	7.5	8.9	10.5	12.3	13.9	16.6	19.3
-62.5°	4.5	4.7	5.4	6.3	7.3	8.6	10.1	11.7	13.2	15.0	17.5
-65°	4.5	4.7	5.3	6.1	7.1	8.3	9.7	11.1	12.4	13.9	15.8
-67.5°	4.5	4.7	5.3	6.0	6.9	8.0	9.3	10.6	11.7	13.0	14.5
-70°	4.5	4.7	5.2	5.9	6.7	7.7	8.9	10.1	11.1	12.0	13.3
-72.5°	4.5	4.7	5.1	5.7	6.4	7.3	8.4	9.5	10.6	11.4	12.2
-75°	4.5	4.6	5.0	5.6	6.2	6.9	7.8	8.9	10.0	10.9	11.7
-77.5°	4.5	4.6	5.0	5.5	6.0	6.5	7.3	8.3	9.3	10.3	11.2
-80°	4.5	4.6	4.9	5.3	5.8	6.3	6.7	7.7	8.6	9.5	10.4
-82.5°	4.5	4.6	4.8	5.2	5.6	6.0	6.4	7.1	7.9	8.7	9.5
-85°	4.5	4.5	4.7	5.1	5.4	5.8	6.2	6.7	7.3	7.9	8.6
-87.5°	4.5	4.5	4.6	4.9	5.2	5.6	5.9	6.3	6.7	7.2	7.7
-90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.2	4.0	3.7	3.4





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	6.7	6.7	6.7	6.7	7.0	7.3	7.6	7.9	8.2	8.4	8.7
87.5°	3.8	3.7	3.5	3.4	3.4	3.4	3.4	3.4	3.1	2.8	2.5
85°	4.2	4.0	3.7	3.6	3.6	3.6	3.5	3.4	3.2	3.1	3.0
82.5°	4.3	4.2	4.2	4.2	4.1	3.9	3.7	3.4	3.4	3.4	3.4
80°	4.5	4.5	4.5	4.5	4.3	4.0	3.7	3.4	3.4	3.4	3.5
77.5°	4.5	4.5	4.5	4.5	4.3	4.1	4.0	4.0	4.0	3.9	3.7
75°	4.5	4.5	4.5	4.5	4.4	4.4	4.5	4.5	4.4	4.3	4.3
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.4	6.7	7.5
70°	4.5	4.5	4.5	4.5	4.5	4.9	6.6	8.7	10.9	12.2	13.6
67.5°	4.5	4.5	4.5	4.7	5.9	7.7	10.2	15.0	20.3	21.9	21.9
65°	4.5	4.5	5.1	6.2	7.7	11.5	16.6	23.0	27.8	27.0	25.1
62.5°	4.5	5.0	6.1	8.0	11.2	15.9	20.7	25.3	30.1	28.8	24.5
60°	5.0	5.7	7.7	10.9	14.3	17.6	22.2	25.2	27.7	27.8	21.4
57.5°	5.5	6.9	10.1	13.3	16.0	18.1	20.0	22.3	23.1	22.5	16.4
55°	6.4	8.7	12.0	15.0	16.8	15.8	16.7	17.2	16.9	15.4	10.8
52.5°	7.8	10.4	13.7	16.1	16.1	14.1	12.5	12.6	11.5	9.4	8.0
50°	9.1	12.0	15.2	16.5	15.3	12.1	9.5	9.2	8.5	7.5	6.7
47.5°	10.3	13.5	16.3	16.8	13.7	11.1	8.8	8.0	7.5	7.3	7.0
45°	11.5	14.4	17.4	15.5	12.9	11.0	9.5	7.9	8.0	8.0	7.6
42.5°	12.5	15.0	16.4	14.5	13.2	11.9	10.8	9.6	9.0	9.1	9.1
40°	13.0	15.4	15.6	15.2	14.0	13.6	13.4	12.5	10.6	11.5	11.8
37.5°	13.1	15.2	15.9	17.2	15.8	16.3	16.8	17.0	15.7	14.8	17.1
35°	13.1	15.5	18.7	20.4	19.6	20.0	22.0	22.8	22.2	21.9	26.0
32.5°	13.4	16.3	22.4	24.5	25.9	26.5	28.2	29.8	31.3	33.9	41.6
30°	15.0	19.8	26.8	29.1	33.6	38.4	37.2	38.0	42.1	57.4	70.6
27.5°	18.3	24.5	31.2	36.1	43.4	53.6	55.3	50.8	64.0	87.3	109.0
25°	22.2	39.5	36.1	44.5	58.3	72.1	78.5	81.5	97.1	128.5	152.9
22.5°	30.5	59.5	58.1	53.7	75.5	93.5	109.3	140.6	184.8	194.7	199.8
20°	45.1	79.3	85.0	89.5	101.3	117.6	144.9	220.0	313.8	348.4	312.5
17.5°	62.4	101.0	115.1	135.7	162.5	167.7	190.2	314.6	476.1	532.4	543.3
15°	81.9	124.3	147.0	187.3	228.1	247.6	313.2	467.7	653.6	745.6	809.3
12.5°	102.8	148.7	180.4	243.2	297.2	327.9	467.9	703.5	881.9	989.3	1157.6
10°	124.4	173.8	214.6	301.9	368.7	408.2	638.8	946.9	1126.7	1248.9	1465.4
7.5°	146.9	198.0	248.6	361.8	441.3	488.1	818.7	1192.6	1365.1	1498.4	1716.4
5°	168.5	220.3	278.9	412.3	501.7	557.3	985.5	1433.6	1596.7	1738.0	1933.3
2.5°	188.3	241.7	308.2	458.6	552.3	609.5	1080.3	1571.3	1744.3	1912.5	2126.4
0°	205.6	261.8	336.0	501.1	600.0	659.6	1157.4	1691.1	1869.7	2052.9	2309.1
-2.5°	208.2	267.9	344.6	497.2	591.1	651.9	1137.2	1672.6	1889.8	2103.6	2371.0
-5°	208.0	272.3	350.9	489.4	579.5	641.8	1097.6	1630.4	1882.6	2094.5	2345.6
-7.5°	205.6	275.0	354.8	477.9	561.6	619.3	1021.5	1526.6	1790.9	1977.7	2219.0
-10°	201.6	274.1	349.4	458.3	536.2	589.0	924.4	1404.0	1694.6	1858.4	2073.0
-12.5°	196.3	270.2	341.0	437.3	511.4	557.9	811.6	1265.1	1596.0	1739.9	1915.5
-15°	190.2	265.3	331.2	415.9	488.1	526.5	684.6	1111.9	1498.7	1648.1	1785.6
-17.5°	183.8	259.5	320.0	394.5	467.2	495.3	547.5	944.9	1360.1	1548.2	1687.5
-20°	177.4	253.0	307.7	374.1	447.5	474.8	508.6	784.2	1158.6	1432.8	1580.2



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	171.4	245.9	296.2	357.3	425.2	463.6	489.6	627.2	945.9	1303.8	1465.6
-25°	169.0	235.4	286.5	341.7	404.0	453.2	472.1	495.2	752.1	1095.0	1349.5
-27.5°	168.5	226.6	275.8	324.9	382.9	439.7	459.4	476.5	607.4	885.4	1215.3
-30°	166.3	214.7	263.9	308.2	362.7	415.9	449.7	468.5	497.9	712.7	987.4
-32.5°	159.0	202.0	249.9	294.0	341.7	393.1	441.6	464.7	488.8	547.9	778.0
-35°	149.5	190.4	234.9	278.4	320.3	370.8	420.7	461.6	479.8	507.3	603.2
-37.5°	140.6	177.7	219.5	261.7	302.2	347.8	398.3	444.2	475.9	497.2	531.5
-40°	130.6	163.7	204.1	244.5	283.4	324.9	371.8	419.2	462.1	498.8	525.1
-42.5°	119.3	151.3	187.6	226.7	263.3	302.5	343.9	389.9	438.5	488.8	526.1
-45°	106.5	137.6	170.3	205.8	241.3	278.2	317.3	358.6	407.9	459.1	508.9
-47.5°	92.6	122.5	153.6	183.6	217.3	252.0	288.6	329.0	372.6	421.1	472.2
-50°	78.1	105.8	134.8	162.5	191.7	224.1	257.9	296.6	337.2	379.6	425.6
-52.5°	63.8	88.0	114.8	141.4	167.3	195.0	226.7	261.4	298.9	338.1	376.4
-55°	48.8	70.9	93.9	119.0	143.9	167.9	194.4	225.6	257.7	293.3	327.3
-57.5°	37.4	53.5	73.9	95.4	118.9	142.4	166.1	189.7	217.9	247.5	275.6
-60°	28.1	39.2	54.4	73.1	92.5	114.6	137.9	160.2	181.7	202.2	226.3
-62.5°	19.8	28.5	38.7	51.4	68.5	86.1	106.1	127.5	149.3	167.0	183.1
-65°	18.0	19.9	26.8	36.0	45.1	60.5	76.5	92.4	111.0	128.1	144.1
-67.5°	16.1	17.9	19.7	22.8	31.1	39.9	48.9	62.9	76.7	89.0	101.1
-70°	14.7	15.9	17.5	19.0	20.7	24.4	32.2	40.0	47.8	56.8	67.5
-72.5°	13.3	14.6	15.7	16.7	18.2	19.9	21.8	23.8	28.2	34.5	40.9
-75°	12.4	13.3	14.4	15.4	16.3	17.2	18.5	20.1	21.6	22.9	24.1
-77.5°	11.7	12.3	13.0	14.0	14.7	15.2	16.0	16.9	18.0	19.1	20.4
-80°	10.8	11.2	11.6	12.1	12.7	13.1	13.6	14.0	14.6	15.4	16.3
-82.5°	9.8	10.1	10.3	10.6	10.8	11.0	11.3	11.6	12.0	12.4	12.8
-85°	8.8	9.0	9.2	9.3	9.3	9.2	9.2	9.3	9.5	9.7	9.8
-87.5°	7.8	7.8	7.9	8.0	8.1	8.0	8.0	7.9	8.0	8.0	8.1
-90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.1	2.8	2.5



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	9.0	9.0	9.0	9.0	9.0	12.1	15.1	18.2	21.3	26.6	32.0
87.5°	2.2	2.2	2.2	2.2	2.2	1.9	1.7	1.4	1.1	1.1	1.1
85°	3.0	2.8	2.6	2.4	2.2	2.2	2.1	2.1	2.1	1.9	1.6
82.5°	3.4	3.1	2.8	2.5	2.2	2.0	1.8	1.5	1.2	1.2	1.1
80°	3.4	3.1	2.8	2.5	2.2	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	3.6	3.4	3.1	2.7	2.3	2.2	2.2	2.2	2.2	2.0	1.7
75°	4.4	4.3	4.2	3.9	3.4	3.2	3.0	2.7	2.3	2.2	2.2
72.5°	8.0	7.9	7.5	7.1	6.2	5.7	5.5	5.2	4.9	4.8	4.8
70°	14.2	13.9	13.1	11.6	9.4	8.0	7.4	6.7	5.9	5.6	5.5
67.5°	19.9	17.7	15.6	13.3	10.7	8.7	7.6	6.5	5.3	4.7	4.7
65°	22.0	17.7	14.6	12.2	10.2	8.4	6.9	5.6	4.3	3.8	3.9
62.5°	19.8	14.6	11.4	9.3	7.7	6.5	5.4	4.5	3.8	3.4	3.5
60°	15.7	10.6	7.8	6.5	5.4	4.6	4.0	3.5	3.0	2.6	2.8
57.5°	11.4	7.6	5.5	5.1	4.5	3.7	3.2	3.0	3.0	3.0	3.2
55°	7.7	6.3	5.6	5.0	4.4	3.8	3.4	3.4	3.4	3.4	3.4
52.5°	6.4	6.0	5.7	5.2	4.6	4.0	3.4	3.4	3.4	3.4	3.4
50°	6.4	6.1	5.8	5.4	4.8	4.1	3.5	3.5	3.8	4.0	4.0
47.5°	6.5	6.2	6.1	5.6	5.1	4.8	4.5	4.6	5.0	5.2	5.1
45°	6.9	6.9	6.8	6.8	6.3	6.4	6.5	6.5	8.0	7.9	7.0
42.5°	8.5	9.0	9.5	9.7	8.4	10.9	14.8	16.6	14.5	11.7	9.9
40°	12.7	13.3	15.9	17.2	21.2	25.0	21.5	17.4	15.6	16.9	18.0
37.5°	20.2	24.0	29.2	35.3	32.9	26.2	26.3	26.2	25.5	27.8	27.7
35°	33.9	42.4	47.6	46.5	43.0	41.1	42.9	44.8	40.5	44.3	45.3
32.5°	54.5	64.7	66.1	62.6	62.8	66.2	72.4	71.5	72.8	77.3	82.4
30°	78.6	90.8	95.5	89.1	84.5	92.6	96.1	99.2	109.1	122.1	133.9
27.5°	118.3	127.3	135.4	128.6	115.2	125.2	132.4	130.2	157.7	172.4	205.2
25°	168.1	180.9	185.5	187.9	183.4	181.5	199.3	208.3	246.3	286.5	354.7
22.5°	229.6	264.2	273.9	261.2	275.5	285.6	297.6	338.2	414.0	537.3	713.4
20°	307.7	378.1	434.9	425.7	391.9	435.1	484.0	611.9	833.4	1331.5	1739.1
17.5°	554.6	555.9	669.2	714.8	659.1	752.8	992.9	1409.1	2324.7	4004.8	5094.1
15°	936.2	961.4	1013.6	1074.6	1174.9	1419.6	1903.3	3647.5	6274.3	9908.6	13637.9
12.5°	1340.7	1397.7	1486.9	1536.9	1741.4	2396.5	4471.0	8290.4	13834.9	20831.5	32437.5
10°	1688.4	1840.0	1955.0	2111.2	2638.9	4177.6	7757.2	14356.7	25533.2	40628.0	58468.2
7.5°	1934.2	2156.1	2350.6	2644.3	3740.2	6841.8	12845.5	23824.6	40706.1	62022.9	86615.6
5°	2181.4	2462.2	2680.3	3067.4	4443.6	8840.2	16829.6	32695.8	57072.3	86091.3	118981.5
2.5°	2432.6	2748.3	2988.5	3467.6	4893.5	9853.4	18850.9	37990.1	67894.4	103228.6	143159.8
0°	2685.5	2984.4	3237.2	3778.8	5592.4	11447.7	20754.8	40010.6	68902.8	104970.6	145502.5
-2.5°	2673.8	2871.2	3102.7	3522.4	5101.2	10538.1	19290.8	37812.7	65227.9	98682.6	135439.0
-5°	2572.1	2710.8	2894.3	3265.2	4563.7	8784.0	16684.1	32322.7	57610.8	88261.1	119943.2
-7.5°	2414.2	2530.5	2667.7	2973.8	3944.1	6991.3	13495.5	25924.4	45701.3	67907.2	92201.4
-10°	2262.7	2352.4	2449.9	2662.0	3285.5	5124.0	9574.1	17566.4	31813.2	48425.5	66913.6
-12.5°	2123.0	2194.6	2246.4	2336.0	2646.6	3711.5	6883.7	12599.2	20783.7	31074.2	44712.9
-15°	1980.8	2041.4	2068.2	2140.1	2343.3	2870.3	4149.1	7744.4	12992.5	19637.9	26553.3
-17.5°	1828.0	1900.0	1940.3	1986.6	2075.1	2293.4	2999.0	4510.7	7683.5	12144.9	16599.0
-20°	1702.4	1787.2	1821.7	1853.9	1935.5	2063.8	2265.2	2945.0	4103.9	6882.4	9652.1



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	1581.0	1657.5	1702.4	1771.3	1876.9	1965.7	2031.8	2193.7	2675.0	3433.2	4786.8
-25°	1470.5	1536.7	1625.5	1757.9	1861.2	1924.7	1937.2	1944.0	2081.3	2231.8	2688.8
-27.5°	1359.4	1453.2	1585.3	1734.7	1857.5	1888.4	1890.1	1887.8	1920.5	1943.3	2057.0
-30°	1260.4	1383.3	1507.9	1667.5	1786.9	1837.2	1858.5	1873.2	1890.1	1910.9	1918.4
-32.5°	1058.6	1309.7	1410.6	1538.4	1688.9	1768.5	1808.4	1842.5	1861.1	1879.3	1893.7
-35°	836.9	1101.8	1342.7	1425.3	1532.2	1666.9	1767.2	1808.1	1842.4	1861.8	1880.0
-37.5°	629.4	856.5	1090.8	1310.2	1419.3	1514.6	1642.9	1742.8	1805.8	1830.7	1852.5
-40°	554.6	613.6	820.5	1021.8	1214.0	1395.6	1502.2	1622.9	1719.3	1768.1	1805.9
-42.5°	551.8	573.5	594.5	735.9	914.5	1089.6	1255.0	1409.9	1552.9	1650.1	1722.2
-45°	551.1	566.6	584.3	605.4	626.7	763.3	916.3	1070.0	1226.9	1374.1	1506.1
-47.5°	515.3	553.8	574.9	591.8	605.9	624.0	644.6	683.5	811.2	939.8	1068.9
-50°	466.2	504.6	539.8	573.4	590.5	602.2	613.5	626.3	642.4	658.6	675.2
-52.5°	411.1	447.7	483.5	515.6	543.3	569.9	595.1	606.7	615.2	623.1	629.9
-55°	359.9	391.2	421.5	450.0	477.5	503.5	527.1	547.4	566.1	583.1	596.4
-57.5°	305.4	335.2	363.4	387.3	410.2	431.9	452.8	472.3	489.8	505.3	518.4
-60°	250.7	275.2	300.0	322.8	344.6	365.1	382.4	398.4	413.0	426.4	438.7
-62.5°	199.2	218.3	239.3	258.5	275.7	292.4	310.9	326.9	340.4	352.2	363.3
-65°	158.9	172.5	187.5	202.0	216.1	232.0	249.4	264.7	277.8	288.8	298.3
-67.5°	114.8	128.1	142.5	155.6	167.7	181.0	197.1	212.2	226.3	237.8	247.0
-70°	77.3	86.8	97.6	109.3	121.0	133.5	147.6	161.2	174.4	184.9	193.6
-72.5°	47.4	53.7	59.9	67.7	75.8	85.4	96.1	107.1	118.0	126.9	134.4
-75°	25.2	27.4	32.1	36.6	40.8	46.1	51.6	56.7	61.5	65.8	69.8
-77.5°	21.5	22.5	23.3	24.1	24.8	26.9	29.6	32.4	35.2	38.2	41.1
-80°	17.2	17.9	18.5	19.2	19.9	21.6	23.4	25.1	26.9	28.9	30.8
-82.5°	13.2	13.6	13.9	14.2	14.4	15.7	17.0	18.3	19.6	21.2	22.7
-85°	10.0	10.2	10.3	10.5	10.6	11.6	12.5	13.5	14.4	16.1	17.8
-87.5°	8.1	8.1	8.0	8.0	8.0	9.2	10.4	11.6	12.7	14.1	15.4
-90°	2.2	2.2	2.2	2.2	2.2	1.9	1.7	1.4	1.1	0.8	0.6



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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°	37.3	42.7	45.5	48.3	45.5	42.7	37.3	32.0	26.6	21.3	18.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4
85°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.6	1.9	2.1	2.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.5
80°	2.2	2.2	1.7	1.1	1.7	2.2	2.2	2.1	2.1	2.1	2.1
77.5°	1.4	1.1	1.6	2.2	1.6	1.1	1.4	1.7	2.0	2.2	2.2
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.7
72.5°	4.7	4.5	4.5	4.5	4.5	4.5	4.7	4.8	4.8	4.9	5.2
70°	5.5	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.6	5.9	6.7
67.5°	4.6	4.5	4.0	3.4	4.0	4.5	4.6	4.7	4.7	5.3	6.5
65°	4.2	4.4	4.0	3.4	4.0	4.4	4.2	3.9	3.8	4.3	5.6
62.5°	3.5	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.4	3.8	4.5
60°	3.0	3.3	3.4	3.4	3.4	3.3	3.0	2.8	2.6	3.0	3.5
57.5°	3.3	3.4	3.4	3.4	3.4	3.4	3.3	3.2	3.0	3.0	3.0
55°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
52.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
50°	3.8	3.6	3.4	3.4	3.4	3.6	3.8	4.0	4.0	3.8	3.5
47.5°	4.9	4.6	4.5	4.5	4.5	4.6	4.9	5.1	5.2	5.0	4.6
45°	6.9	6.8	6.7	6.7	6.7	6.8	6.9	7.0	7.9	8.0	6.5
42.5°	10.1	10.0	10.0	10.1	10.0	10.0	10.1	9.9	11.7	14.5	16.6
40°	18.9	19.0	18.6	18.0	18.6	19.0	18.9	18.0	16.9	15.6	17.4
37.5°	27.6	27.8	27.8	28.1	27.8	27.8	27.6	27.7	27.8	25.5	26.2
35°	44.7	43.6	41.2	41.6	41.2	43.6	44.7	45.3	44.3	40.5	44.8
32.5°	85.6	84.4	79.7	83.1	79.7	84.4	85.6	82.4	77.3	72.8	71.5
30°	144.1	149.8	152.3	151.7	152.3	149.8	144.1	133.9	122.1	109.1	99.2
27.5°	221.9	234.6	242.5	247.2	242.5	234.6	221.9	205.2	172.4	157.7	130.2
25°	403.8	435.1	452.8	476.4	452.8	435.1	403.8	354.7	286.5	246.3	208.3
22.5°	902.9	1016.2	1088.3	1139.4	1088.3	1016.2	902.9	713.4	537.3	414.0	338.2
20°	2342.5	2333.2	2520.9	2622.6	2520.9	2333.2	2342.5	1739.1	1331.5	833.4	611.9
17.5°	7332.6	8497.9	8793.5	8540.8	8793.5	8497.9	7332.6	5094.1	4004.8	2324.7	1409.1
15°	18847.9	22740.3	24544.1	24519.0	24544.1	22740.3	18847.9	13637.9	9908.6	6274.3	3647.5
12.5°	40642.9	48160.3	53068.8	56038.2	53068.8	48160.3	40642.9	32437.5	20831.5	13834.9	8290.4
10°	73757.5	86635.3	96904.6	102063.7	96904.6	86635.3	73757.5	58468.2	40628.0	25533.2	14356.7
7.5°	109307.1	130143.6	147737.8	155041.2	147737.8	130143.6	109307.1	86615.6	62022.9	40706.1	23824.6
5°	150490.7	183645.0	200111.7	207207.3	200111.7	183645.0	150490.7	118981.5	86091.3	57072.3	32695.8
2.5°	184945.3	218004.7	241020.4	249767.5	241020.4	218004.7	184945.3	143159.8	103228.6	67894.4	37990.1
0°	191842.1	226402.5	251733.3	270069.4	251733.3	226402.5	191842.1	145502.5	104970.6	68902.8	40010.6
-2.5°	177193.7	210962.4	229471.2	237226.0	229471.2	210962.4	177193.7	135439.0	98682.6	65227.9	37812.7
-5°	154040.8	184012.2	201124.3	204561.1	201124.3	184012.2	154040.8	119943.2	88261.1	57610.8	32322.7
-7.5°	117714.9	138462.2	151959.3	154683.8	151959.3	138462.2	117714.9	92201.4	67907.2	45701.3	25924.4
-10°	85607.4	100566.2	109233.9	110171.9	109233.9	100566.2	85607.4	66913.6	48425.5	31813.2	17566.4
-12.5°	57198.7	68919.8	75050.1	75936.3	75050.1	68919.8	57198.7	44712.9	31074.2	20783.7	12599.2
-15°	35843.4	43467.5	47969.8	48945.8	47969.8	43467.5	35843.4	26553.3	19637.9	12992.5	7744.4
-17.5°	22084.9	25941.4	28302.9	29864.1	28302.9	25941.4	22084.9	16599.0	12144.9	7683.5	4510.7
-20°	12913.4	15414.2	16817.6	17455.8	16817.6	15414.2	12913.4	9652.1	6882.4	4103.9	2945.0



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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°	6483.1	7716.9	8557.2	8684.6	8557.2	7716.9	6483.1	4786.8	3433.2	2675.0	2193.7
-25°	3144.2	3487.8	3723.6	3737.2	3723.6	3487.8	3144.2	2688.8	2231.8	2081.3	1944.0
-27.5°	2149.9	2221.4	2267.6	2294.5	2267.6	2221.4	2149.9	2057.0	1943.3	1920.5	1887.8
-30°	1926.4	1937.1	1943.5	1934.9	1943.5	1937.1	1926.4	1918.4	1910.9	1890.1	1873.2
-32.5°	1898.5	1903.5	1906.9	1901.2	1906.9	1903.5	1898.5	1893.7	1879.3	1861.1	1842.5
-35°	1896.3	1910.2	1921.0	1918.1	1921.0	1910.2	1896.3	1880.0	1861.8	1842.4	1808.1
-37.5°	1868.5	1880.6	1888.8	1888.8	1888.8	1880.6	1868.5	1852.5	1830.7	1805.8	1742.8
-40°	1827.1	1843.8	1854.1	1854.0	1854.1	1843.8	1827.1	1805.9	1768.1	1719.3	1622.9
-42.5°	1756.6	1779.9	1790.9	1790.0	1790.9	1779.9	1756.6	1722.2	1650.1	1552.9	1409.9
-45°	1605.2	1680.4	1720.8	1724.8	1720.8	1680.4	1605.2	1506.1	1374.1	1226.9	1070.0
-47.5°	1196.0	1311.9	1383.0	1398.9	1383.0	1311.9	1196.0	1068.9	939.8	811.2	683.5
-50°	691.6	707.1	713.7	711.3	713.7	707.1	691.6	675.2	658.6	642.4	626.3
-52.5°	636.4	642.6	647.3	650.6	647.3	642.6	636.4	629.9	623.1	615.2	606.7
-55°	607.3	615.7	621.0	623.6	621.0	615.7	607.3	596.4	583.1	566.1	547.4
-57.5°	529.0	537.4	542.0	543.8	542.0	537.4	529.0	518.4	505.3	489.8	472.3
-60°	448.9	457.0	461.8	464.1	461.8	457.0	448.9	438.7	426.4	413.0	398.4
-62.5°	372.7	380.4	385.0	387.7	385.0	380.4	372.7	363.3	352.2	340.4	326.9
-65°	306.6	313.9	317.9	320.2	317.9	313.9	306.6	298.3	288.8	277.8	264.7
-67.5°	255.2	262.5	267.3	270.8	267.3	262.5	255.2	247.0	237.8	226.3	212.2
-70°	201.6	208.7	211.3	212.4	211.3	208.7	201.6	193.6	184.9	174.4	161.2
-72.5°	141.2	147.1	151.0	153.9	151.0	147.1	141.2	134.4	126.9	118.0	107.1
-75°	73.4	76.6	79.0	80.9	79.0	76.6	73.4	69.8	65.8	61.5	56.7
-77.5°	44.0	46.8	48.2	49.4	48.2	46.8	44.0	41.1	38.2	35.2	32.4
-80°	32.7	34.6	35.4	36.0	35.4	34.6	32.7	30.8	28.9	26.9	25.1
-82.5°	24.2	25.7	26.4	27.0	26.4	25.7	24.2	22.7	21.2	19.6	18.3
-85°	19.6	21.3	21.9	22.5	21.9	21.3	19.6	17.8	16.1	14.4	13.5
-87.5°	16.8	18.1	19.1	20.2	19.1	18.1	16.8	15.4	14.1	12.7	11.6
-90°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.8	1.1	1.4



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	15.1	12.1	9.0	9.0	9.0	9.0	9.0	8.7	8.4	8.2	7.9
87.5°	1.7	1.9	2.2	2.2	2.2	2.2	2.2	2.5	2.8	3.1	3.4
85°	2.1	2.2	2.2	2.4	2.6	2.8	3.0	3.0	3.1	3.2	3.4
82.5°	1.8	2.0	2.2	2.5	2.8	3.1	3.4	3.4	3.4	3.4	3.4
80°	2.1	2.1	2.2	2.5	2.8	3.1	3.4	3.5	3.4	3.4	3.4
77.5°	2.2	2.2	2.3	2.7	3.1	3.4	3.6	3.7	3.9	4.0	4.0
75°	3.0	3.2	3.4	3.9	4.2	4.3	4.4	4.3	4.3	4.4	4.5
72.5°	5.5	5.7	6.2	7.1	7.5	7.9	8.0	7.5	6.7	5.4	4.5
70°	7.4	8.0	9.4	11.6	13.1	13.9	14.2	13.6	12.2	10.9	8.7
67.5°	7.6	8.7	10.7	13.3	15.6	17.7	19.9	21.9	21.9	20.3	15.0
65°	6.9	8.4	10.2	12.2	14.6	17.7	22.0	25.1	27.0	27.8	23.0
62.5°	5.4	6.5	7.7	9.3	11.4	14.6	19.8	24.5	28.8	30.1	25.3
60°	4.0	4.6	5.4	6.5	7.8	10.6	15.7	21.4	27.8	27.7	25.2
57.5°	3.2	3.7	4.5	5.1	5.5	7.6	11.4	16.4	22.5	23.1	22.3
55°	3.4	3.8	4.4	5.0	5.6	6.3	7.7	10.8	15.4	16.9	17.2
52.5°	3.4	4.0	4.6	5.2	5.7	6.0	6.4	8.0	9.4	11.5	12.6
50°	3.5	4.1	4.8	5.4	5.8	6.1	6.4	6.7	7.5	8.5	9.2
47.5°	4.5	4.8	5.1	5.6	6.1	6.2	6.5	7.0	7.3	7.5	8.0
45°	6.5	6.4	6.3	6.8	6.8	6.9	6.9	7.6	8.0	8.0	7.9
42.5°	14.8	10.9	8.4	9.7	9.5	9.0	8.5	9.1	9.1	9.0	9.6
40°	21.5	25.0	21.2	17.2	15.9	13.3	12.7	11.8	11.5	10.6	12.5
37.5°	26.3	26.2	32.9	35.3	29.2	24.0	20.2	17.1	14.8	15.7	17.0
35°	42.9	41.1	43.0	46.5	47.6	42.4	33.9	26.0	21.9	22.2	22.8
32.5°	72.4	66.2	62.8	62.6	66.1	64.7	54.5	41.6	33.9	31.3	29.8
30°	96.1	92.6	84.5	89.1	95.5	90.8	78.6	70.6	57.4	42.1	38.0
27.5°	132.4	125.2	115.2	128.6	135.4	127.3	118.3	109.0	87.3	64.0	50.8
25°	199.3	181.5	183.4	187.9	185.5	180.9	168.1	152.9	128.5	97.1	81.5
22.5°	297.6	285.6	275.5	261.2	273.9	264.2	229.6	199.8	194.7	184.8	140.6
20°	484.0	435.1	391.9	425.7	434.9	378.1	307.7	312.5	348.4	313.8	220.0
17.5°	992.9	752.8	659.1	714.8	669.2	555.9	554.6	543.3	532.4	476.1	314.6
15°	1903.3	1419.6	1174.9	1074.6	1013.6	961.4	936.2	809.3	745.6	653.6	467.7
12.5°	4471.0	2396.5	1741.4	1536.9	1486.9	1397.7	1340.7	1157.6	989.3	881.9	703.5
10°	7757.2	4177.6	2638.9	2111.2	1955.0	1840.0	1688.4	1465.4	1248.9	1126.7	946.9
7.5°	12845.5	6841.8	3740.2	2644.3	2350.6	2156.1	1934.2	1716.4	1498.4	1365.1	1192.6
5°	16829.6	8840.2	4443.6	3067.4	2680.3	2462.2	2181.4	1933.3	1738.0	1596.7	1433.6
2.5°	18850.9	9853.4	4893.5	3467.6	2988.5	2748.3	2432.6	2126.4	1912.5	1744.3	1571.3
0°	20754.8	11447.7	5592.4	3778.8	3237.2	2984.4	2685.5	2309.1	2052.9	1869.7	1691.1
-2.5°	19290.8	10538.1	5101.2	3522.4	3102.7	2871.2	2673.8	2371.0	2103.6	1889.8	1672.6
-5°	16684.1	8784.0	4563.7	3265.2	2894.3	2710.8	2572.1	2345.6	2094.5	1882.6	1630.4
-7.5°	13495.5	6991.3	3944.1	2973.8	2667.7	2530.5	2414.2	2219.0	1977.7	1790.9	1526.6
-10°	9574.1	5124.0	3285.5	2662.0	2449.9	2352.4	2262.7	2073.0	1858.4	1694.6	1404.0
-12.5°	6883.7	3711.5	2646.6	2336.0	2246.4	2194.6	2123.0	1915.5	1739.9	1596.0	1265.1
-15°	4149.1	2870.3	2343.3	2140.1	2068.2	2041.4	1980.8	1785.6	1648.1	1498.7	1111.9
-17.5°	2999.0	2293.4	2075.1	1986.6	1940.3	1900.0	1828.0	1687.5	1548.2	1360.1	944.9
-20°	2265.2	2063.8	1935.5	1853.9	1821.7	1787.2	1702.4	1580.2	1432.8	1158.6	784.2





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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°	2031.8	1965.7	1876.9	1771.3	1702.4	1657.5	1581.0	1465.6	1303.8	945.9	627.2
-25°	1937.2	1924.7	1861.2	1757.9	1625.5	1536.7	1470.5	1349.5	1095.0	752.1	495.2
-27.5°	1890.1	1888.4	1857.5	1734.7	1585.3	1453.2	1359.4	1215.3	885.4	607.4	476.5
-30°	1858.5	1837.2	1786.9	1667.5	1507.9	1383.3	1260.4	987.4	712.7	497.9	468.5
-32.5°	1808.4	1768.5	1688.9	1538.4	1410.6	1309.7	1058.6	778.0	547.9	488.8	464.7
-35°	1767.2	1666.9	1532.2	1425.3	1342.7	1101.8	836.9	603.2	507.3	479.8	461.6
-37.5°	1642.9	1514.6	1419.3	1310.2	1090.8	856.5	629.4	531.5	497.2	475.9	444.2
-40°	1502.2	1395.6	1214.0	1021.8	820.5	613.6	554.6	525.1	498.8	462.1	419.2
-42.5°	1255.0	1089.6	914.5	735.9	594.5	573.5	551.8	526.1	488.8	438.5	389.9
-45°	916.3	763.3	626.7	605.4	584.3	566.6	551.1	508.9	459.1	407.9	358.6
-47.5°	644.6	624.0	605.9	591.8	574.9	553.8	515.3	472.2	421.1	372.6	329.0
-50°	613.5	602.2	590.5	573.4	539.8	504.6	466.2	425.6	379.6	337.2	296.6
-52.5°	595.1	569.9	543.3	515.6	483.5	447.7	411.1	376.4	338.1	298.9	261.4
-55°	527.1	503.5	477.5	450.0	421.5	391.2	359.9	327.3	293.3	257.7	225.6
-57.5°	452.8	431.9	410.2	387.3	363.4	335.2	305.4	275.6	247.5	217.9	189.7
-60°	382.4	365.1	344.6	322.8	300.0	275.2	250.7	226.3	202.2	181.7	160.2
-62.5°	310.9	292.4	275.7	258.5	239.3	218.3	199.2	183.1	167.0	149.3	127.5
-65°	249.4	232.0	216.1	202.0	187.5	172.5	158.9	144.1	128.1	111.0	92.4
-67.5°	197.1	181.0	167.7	155.6	142.5	128.1	114.8	101.1	89.0	76.7	62.9
-70°	147.6	133.5	121.0	109.3	97.6	86.8	77.3	67.5	56.8	47.8	40.0
-72.5°	96.1	85.4	75.8	67.7	59.9	53.7	47.4	40.9	34.5	28.2	23.8
-75°	51.6	46.1	40.8	36.6	32.1	27.4	25.2	24.1	22.9	21.6	20.1
-77.5°	29.6	26.9	24.8	24.1	23.3	22.5	21.5	20.4	19.1	18.0	16.9
-80°	23.4	21.6	19.9	19.2	18.5	17.9	17.2	16.3	15.4	14.6	14.0
-82.5°	17.0	15.7	14.4	14.2	13.9	13.6	13.2	12.8	12.4	12.0	11.6
-85°	12.5	11.6	10.6	10.5	10.3	10.2	10.0	9.8	9.7	9.5	9.3
-87.5°	10.4	9.2	8.0	8.0	8.0	8.1	8.1	8.1	8.0	8.0	7.9
-90°	1.7	1.9	2.2	2.2	2.2	2.2	2.2	2.5	2.8	3.1	3.4





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	7.6	7.3	7.0	6.7	6.7	6.7	6.7	6.7	6.4	6.2	5.9
87.5°	3.4	3.4	3.4	3.4	3.5	3.7	3.8	3.9	4.0	4.1	4.3
85°	3.5	3.6	3.6	3.6	3.7	4.0	4.2	4.3	4.3	4.3	4.4
82.5°	3.7	3.9	4.1	4.2	4.2	4.2	4.3	4.5	4.5	4.5	4.5
80°	3.7	4.0	4.3	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	4.0	4.1	4.3	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
75°	4.5	4.4	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
70°	6.6	4.9	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
67.5°	10.2	7.7	5.9	4.7	4.5	4.5	4.5	4.6	4.7	4.5	4.5
65°	16.6	11.5	7.7	6.2	5.1	4.5	4.5	4.7	4.9	4.7	4.5
62.5°	20.7	15.9	11.2	8.0	6.1	5.0	4.5	4.8	5.0	5.0	4.7
60°	22.2	17.6	14.3	10.9	7.7	5.7	5.0	4.8	5.1	5.3	5.0
57.5°	20.0	18.1	16.0	13.3	10.1	6.9	5.5	5.2	5.1	5.4	5.3
55°	16.7	15.8	16.8	15.0	12.0	8.7	6.4	5.6	5.3	5.4	5.6
52.5°	12.5	14.1	16.1	16.1	13.7	10.4	7.8	6.1	5.7	5.5	5.7
50°	9.5	12.1	15.3	16.5	15.2	12.0	9.1	7.0	6.1	5.6	5.8
47.5°	8.8	11.1	13.7	16.8	16.3	13.5	10.3	7.9	6.5	6.0	6.0
45°	9.5	11.0	12.9	15.5	17.4	14.4	11.5	8.5	7.0	6.4	6.1
42.5°	10.8	11.9	13.2	14.5	16.4	15.0	12.5	9.4	7.4	6.8	6.4
40°	13.4	13.6	14.0	15.2	15.6	15.4	13.0	10.2	7.7	7.2	6.8
37.5°	16.8	16.3	15.8	17.2	15.9	15.2	13.1	10.9	8.5	7.8	7.1
35°	22.0	20.0	19.6	20.4	18.7	15.5	13.1	11.3	9.7	8.4	7.5
32.5°	28.2	26.5	25.9	24.5	22.4	16.3	13.4	12.3	10.9	9.1	7.8
30°	37.2	38.4	33.6	29.1	26.8	19.8	15.0	13.5	12.1	9.8	8.2
27.5°	55.3	53.6	43.4	36.1	31.2	24.5	18.3	14.8	13.3	10.6	8.7
25°	78.5	72.1	58.3	44.5	36.1	39.5	22.2	16.4	14.5	11.6	9.3
22.5°	109.3	93.5	75.5	53.7	58.1	59.5	30.5	19.5	15.7	12.6	9.9
20°	144.9	117.6	101.3	89.5	85.0	79.3	45.1	22.9	17.0	13.6	10.5
17.5°	190.2	167.7	162.5	135.7	115.1	101.0	62.4	26.6	18.3	14.5	11.1
15°	313.2	247.6	228.1	187.3	147.0	124.3	81.9	30.4	19.7	15.4	11.6
12.5°	467.9	327.9	297.2	243.2	180.4	148.7	102.8	34.4	21.1	16.3	12.1
10°	638.8	408.2	368.7	301.9	214.6	173.8	124.4	39.1	23.5	17.2	12.4
7.5°	818.7	488.1	441.3	361.8	248.6	198.0	146.9	45.3	26.1	18.0	12.8
5°	985.5	557.3	501.7	412.3	278.9	220.3	168.5	51.5	28.7	18.8	13.1
2.5°	1080.3	609.5	552.3	458.6	308.2	241.7	188.3	57.4	31.3	19.5	13.3
0°	1157.4	659.6	600.0	501.1	336.0	261.8	205.6	62.9	33.7	20.2	13.5
-2.5°	1137.2	651.9	591.1	497.2	344.6	267.9	208.2	73.1	41.7	25.4	16.1
-5°	1097.6	641.8	579.5	489.4	350.9	272.3	208.0	82.6	49.3	30.5	18.6
-7.5°	1021.5	619.3	561.6	477.9	354.8	275.0	205.6	91.2	56.4	35.1	20.9
-10°	924.4	589.0	536.2	458.3	349.4	274.1	201.6	99.0	62.9	39.3	23.0
-12.5°	811.6	557.9	511.4	437.3	341.0	270.2	196.3	105.6	68.6	43.0	24.7
-15°	684.6	526.5	488.1	415.9	331.2	265.3	190.2	111.1	73.5	46.2	26.0
-17.5°	547.5	495.3	467.2	394.5	320.0	259.5	183.8	115.4	77.6	49.2	27.4
-20°	508.6	474.8	447.5	374.1	307.7	253.0	177.4	118.4	80.8	51.4	28.7



REPORT NUMBER: P731408 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-2S-CV5

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	489.6	463.6	425.2	357.3	296.2	245.9	171.4	120.0	83.1	52.8	29.3
-25°	472.1	453.2	404.0	341.7	286.5	235.4	169.0	120.3	84.5	53.3	29.3
-27.5°	459.4	439.7	382.9	324.9	275.8	226.6	168.5	121.4	84.9	53.0	28.6
-30°	449.7	415.9	362.7	308.2	263.9	214.7	166.3	121.2	84.3	52.1	27.1
-32.5°	441.6	393.1	341.7	294.0	249.9	202.0	159.0	119.8	82.5	50.3	26.1
-35°	420.7	370.8	320.3	278.4	234.9	190.4	149.5	117.0	79.4	47.5	25.0
-37.5°	398.3	347.8	302.2	261.7	219.5	177.7	140.6	108.7	75.0	43.6	23.4
-40°	371.8	324.9	283.4	244.5	204.1	163.7	130.6	99.2	69.5	38.6	21.2
-42.5°	343.9	302.5	263.3	226.7	187.6	151.3	119.3	88.7	60.8	34.6	18.5
-45°	317.3	278.2	241.3	205.8	170.3	137.6	106.5	77.3	51.2	30.9	16.5
-47.5°	288.6	252.0	217.3	183.6	153.6	122.5	92.6	65.8	41.0	26.5	15.9
-50°	257.9	224.1	191.7	162.5	134.8	105.8	78.1	53.6	34.7	20.9	15.1
-52.5°	226.7	195.0	167.3	141.4	114.8	88.0	63.8	41.4	28.0	18.2	14.2
-55°	194.4	167.9	143.9	119.0	93.9	70.9	48.8	33.6	21.1	16.7	13.2
-57.5°	166.1	142.4	118.9	95.4	73.9	53.5	37.4	25.5	18.3	15.2	12.8
-60°	137.9	114.6	92.5	73.1	54.4	39.2	28.1	19.3	16.6	13.9	12.3
-62.5°	106.1	86.1	68.5	51.4	38.7	28.5	19.8	17.5	15.0	13.2	11.7
-65°	76.5	60.5	45.1	36.0	26.8	19.9	18.0	15.8	13.9	12.4	11.1
-67.5°	48.9	39.9	31.1	22.8	19.7	17.9	16.1	14.5	13.0	11.7	10.6
-70°	32.2	24.4	20.7	19.0	17.5	15.9	14.7	13.3	12.0	11.1	10.1
-72.5°	21.8	19.9	18.2	16.7	15.7	14.6	13.3	12.2	11.4	10.6	9.5
-75°	18.5	17.2	16.3	15.4	14.4	13.3	12.4	11.7	10.9	10.0	8.9
-77.5°	16.0	15.2	14.7	14.0	13.0	12.3	11.7	11.2	10.3	9.3	8.3
-80°	13.6	13.1	12.7	12.1	11.6	11.2	10.8	10.4	9.5	8.6	7.7
-82.5°	11.3	11.0	10.8	10.6	10.3	10.1	9.8	9.5	8.7	7.9	7.1
-85°	9.2	9.2	9.3	9.3	9.2	9.0	8.8	8.6	7.9	7.3	6.7
-87.5°	8.0	8.0	8.1	8.0	7.9	7.8	7.8	7.7	7.2	6.7	6.3
-90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.7	4.0	4.2



REPORT NUMBER: P731408 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	5.6	5.3	5.1	4.8	4.5	4.5	4.5
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
75°	4.5	4.6	4.5	4.5	4.5	4.5	4.5
72.5°	4.6	4.7	4.6	4.5	4.5	4.5	4.5
70°	4.6	4.7	4.7	4.5	4.5	4.5	4.5
67.5°	4.6	4.8	4.8	4.6	4.5	4.5	4.5
65°	4.6	4.9	4.9	4.7	4.5	4.5	4.5
62.5°	4.7	4.9	5.1	4.9	4.5	4.5	4.5
60°	4.7	5.0	5.2	5.0	4.5	4.5	4.5
57.5°	5.0	5.0	5.2	5.1	4.6	4.5	4.5
55°	5.2	5.0	5.2	5.2	4.7	4.5	4.5
52.5°	5.5	5.1	5.3	5.3	4.7	4.5	4.5
50°	5.8	5.3	5.3	5.4	4.8	4.5	4.5
47.5°	6.0	5.5	5.3	5.5	4.9	4.5	4.5
45°	6.2	5.7	5.4	5.6	5.0	4.5	4.5
42.5°	6.3	6.0	5.4	5.6	5.0	4.5	4.5
40°	6.5	6.2	5.5	5.6	5.1	4.5	4.5
37.5°	6.7	6.4	5.7	5.6	5.1	4.5	4.5
35°	7.0	6.5	5.8	5.7	5.2	4.5	4.5
32.5°	7.2	6.7	6.0	5.7	5.3	4.5	4.5
30°	7.5	6.9	6.1	5.8	5.3	4.5	4.5
27.5°	7.8	7.1	6.2	5.8	5.4	4.5	4.5
25°	8.0	7.3	6.3	5.9	5.4	4.5	4.5
22.5°	8.3	7.4	6.4	6.0	5.4	4.5	4.5
20°	8.5	7.5	6.5	6.0	5.5	4.5	4.5
17.5°	8.7	7.6	6.6	6.1	5.5	4.5	4.5
15°	8.9	7.7	6.6	6.2	5.5	4.5	4.5
12.5°	9.2	7.8	6.7	6.3	5.5	4.5	4.5
10°	9.4	7.8	6.7	6.4	5.6	4.5	4.5
7.5°	9.6	7.8	6.7	6.5	5.6	4.5	4.5
5°	9.8	7.9	6.7	6.5	5.6	4.5	4.5
2.5°	9.9	7.9	6.7	6.6	5.6	4.5	4.5
0°	10.1	7.9	6.7	6.7	5.6	4.5	4.5
-2.5°	11.0	8.1	6.9	6.8	5.6	4.5	4.5
-5°	11.8	8.4	7.1	6.8	5.7	4.5	4.5
-7.5°	12.6	8.6	7.3	6.9	5.7	4.6	4.5
-10°	13.3	8.8	7.5	7.0	5.8	4.6	4.5
-12.5°	13.8	9.0	7.7	7.0	5.8	4.6	4.5
-15°	14.3	9.1	7.8	7.1	5.8	4.6	4.5
-17.5°	14.5	9.3	8.0	7.1	5.8	4.7	4.5
-20°	14.8	9.5	8.1	7.1	5.8	4.7	4.5



REPORT NUMBER: P731408 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-2S-CV5

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	15.2	9.6	8.2	7.1	5.9	4.7	4.5
-25°	15.2	9.8	8.3	7.1	5.9	4.7	4.5
-27.5°	15.0	10.0	8.4	7.1	5.9	4.7	4.5
-30°	14.4	10.1	8.4	7.1	5.9	4.7	4.5
-32.5°	13.5	10.2	8.5	7.1	5.8	4.7	4.5
-35°	13.2	10.2	8.5	7.1	5.8	4.8	4.5
-37.5°	13.2	10.1	8.5	7.1	5.8	4.8	4.5
-40°	13.0	10.1	8.5	7.0	5.8	4.8	4.5
-42.5°	12.8	10.1	8.4	7.0	5.8	4.8	4.5
-45°	12.4	10.0	8.3	6.9	5.7	4.8	4.5
-47.5°	11.9	9.9	8.3	6.9	5.7	4.8	4.5
-50°	11.6	9.8	8.1	6.8	5.7	4.8	4.5
-52.5°	11.4	9.6	8.0	6.7	5.6	4.8	4.5
-55°	11.2	9.4	7.9	6.6	5.6	4.8	4.5
-57.5°	10.9	9.2	7.7	6.5	5.5	4.7	4.5
-60°	10.5	8.9	7.5	6.4	5.5	4.7	4.5
-62.5°	10.1	8.6	7.3	6.3	5.4	4.7	4.5
-65°	9.7	8.3	7.1	6.1	5.3	4.7	4.5
-67.5°	9.3	8.0	6.9	6.0	5.3	4.7	4.5
-70°	8.9	7.7	6.7	5.9	5.2	4.7	4.5
-72.5°	8.4	7.3	6.4	5.7	5.1	4.7	4.5
-75°	7.8	6.9	6.2	5.6	5.0	4.6	4.5
-77.5°	7.3	6.5	6.0	5.5	5.0	4.6	4.5
-80°	6.7	6.3	5.8	5.3	4.9	4.6	4.5
-82.5°	6.4	6.0	5.6	5.2	4.8	4.6	4.5
-85°	6.2	5.8	5.4	5.1	4.7	4.5	4.5
-87.5°	5.9	5.6	5.2	4.9	4.6	4.5	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

