

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: P731629 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-80-3S-VHE**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731629 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680N-40-80-3S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 3S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

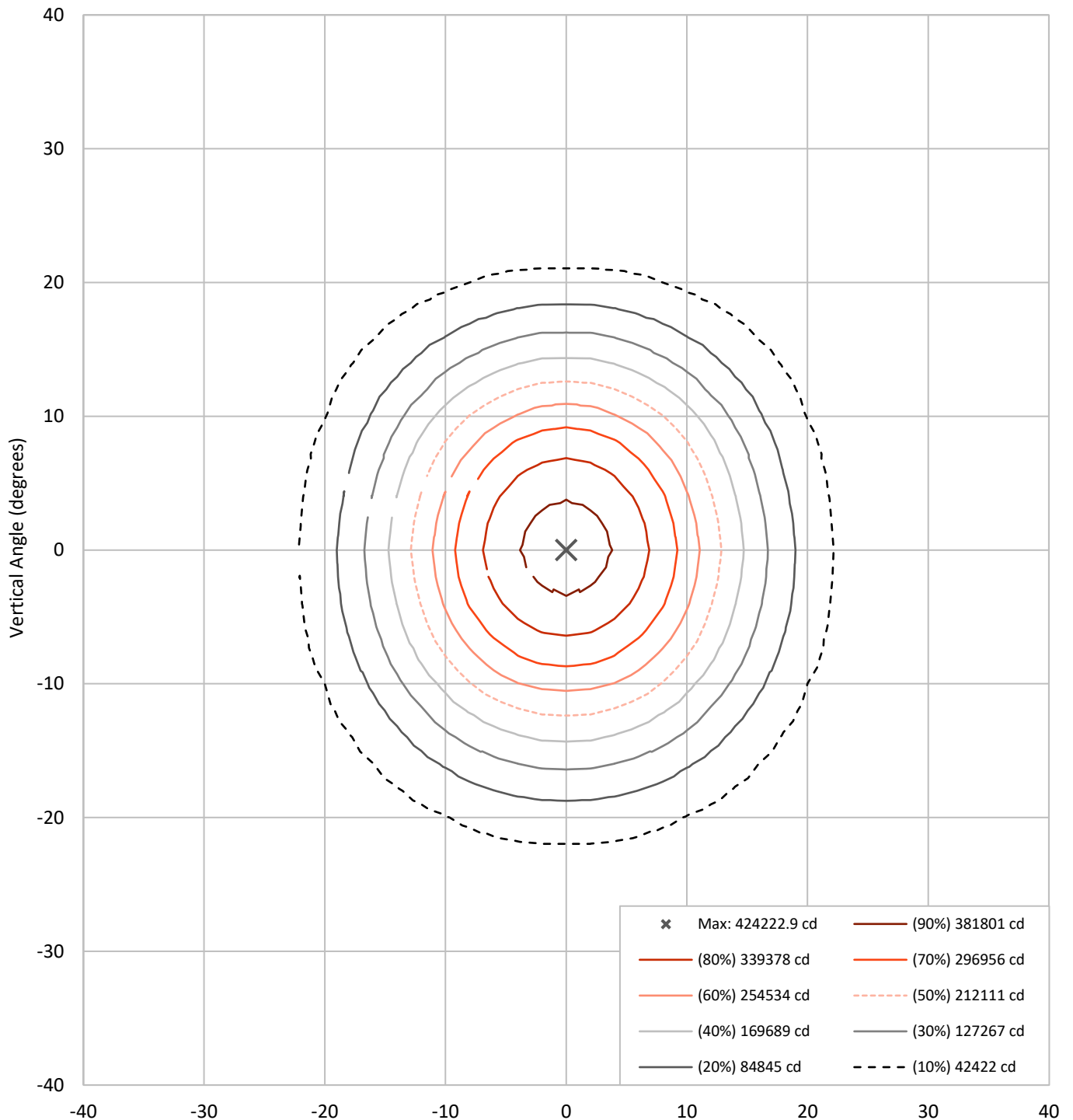
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	95310.3 lumens	Max Intensity:	424222.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	136.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	25.7°H x 24.9°V	Field Angle (10%):	44.2°H x 43°V
Beam Lumens:	45601.9 lumens	Field Lumens:	79905.9 lumens
Beam Efficiency:	47.8%	Field Efficiency:	83.8%

Input Watts (W): 697.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Candela Plot





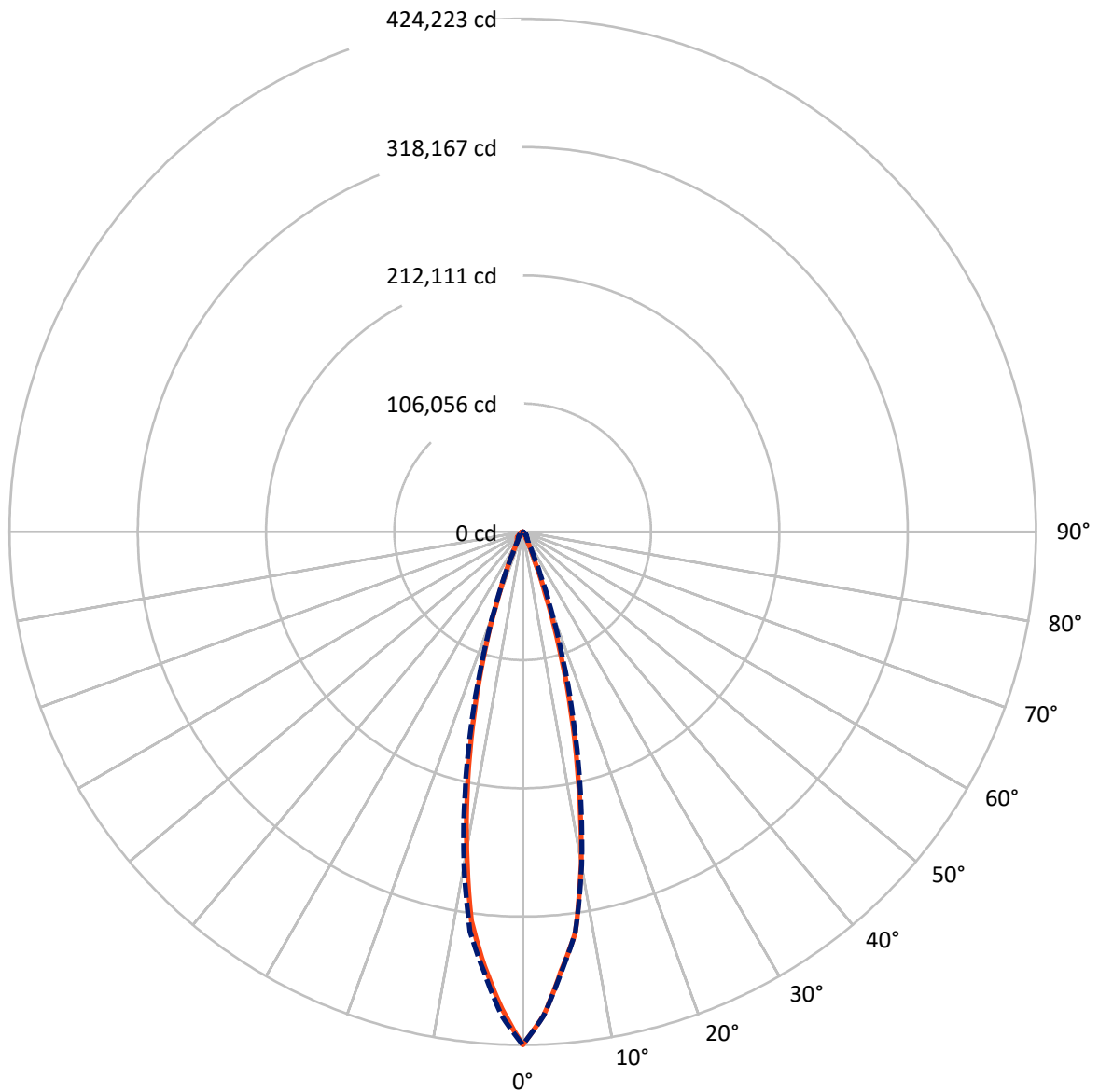
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### Lumen Table

90	0.2	0.7	1.5	2.2	2.7	2.2	1.5	0.7	0.2									
80	0.2	0.7	1.5	2.2	2.7	2.2	1.5	0.7	0.2									
70	0.3	0.1	0.3	0.7	0.9	0.7	0.6	0.6	0.6	0.6	0.7	0.9	0.7	0.3	0.1	0.3		
60		0.4	0.9	1.2	1.1	1.1	1.4	1.6	1.6	1.4	1.1	1.1	1.2	0.9	0.4			
50	0.9	1.3	3.2	6.7	12.3	21.0	29.9	33.9	33.9	29.9	21.0	12.3	6.7	3.2	1.3	0.9		
40		3.3	10.1	20.9	39.3	65.2	78.7	92.4	92.4	78.7	65.2	39.3	20.9	10.1	3.3			
30	2.2	5.5	17.0	37.3	83.6	107.5	232.2	507.8	507.8	232.2	107.5	83.6	37.3	17.0	5.5	2.2		
20		7.3	22.4	60.7	119.9	290.0	1746.9	4223.3	4223.3	1746.9	290.0	119.9	60.7	22.4	7.3			
10	3.2	8.8	25.9	77.3	145.3	643.7	4242.9	9664.1	9664.1	4242.9	643.7	145.3	77.3	25.9	8.8	3.2		
0		9.7	28.5	81.8	161.0	663.5	4268.6	9563.7	9563.7	4268.6	663.5	161.0	81.8	28.5	9.7			
-10	3.5	9.8	29.4	79.0	160.4	355.7	1821.5	4262.7	4262.7	1821.5	355.7	160.4	79.0	29.4	9.8	3.5		
-20		9.1	28.1	62.5	144.3	217.9	377.6	718.0	718.0	377.6	217.9	144.3	62.5	28.1	9.1			
-30	2.9	7.7	24.0	50.0	99.7	174.3	215.1	238.8	238.8	215.1	174.3	99.7	50.0	24.0	7.7	2.9		
-40		6.0	18.3	38.7	63.2	93.1	136.6	170.1	170.1	136.6	93.1	63.2	38.7	18.3	6.0			
-50	2.4	4.0	11.9	25.3	42.5	57.8	70.2	77.9	77.9	70.2	57.8	42.5	25.3	11.9	4.0	2.4		
-60		2.9	6.3	13.1	22.1	30.5	38.5	43.3	43.3	38.5	30.5	22.1	13.1	6.3	2.9			
-70	1.7	10.4	24.2	39.3	48.3	39.3	24.2	10.4	1.7							1.7		
-80		10.4	24.2	39.3	48.3	39.3	24.2	10.4	1.7									
-90	1.7	10.4	24.2	39.3	48.3	39.3	24.2	10.4	1.7									

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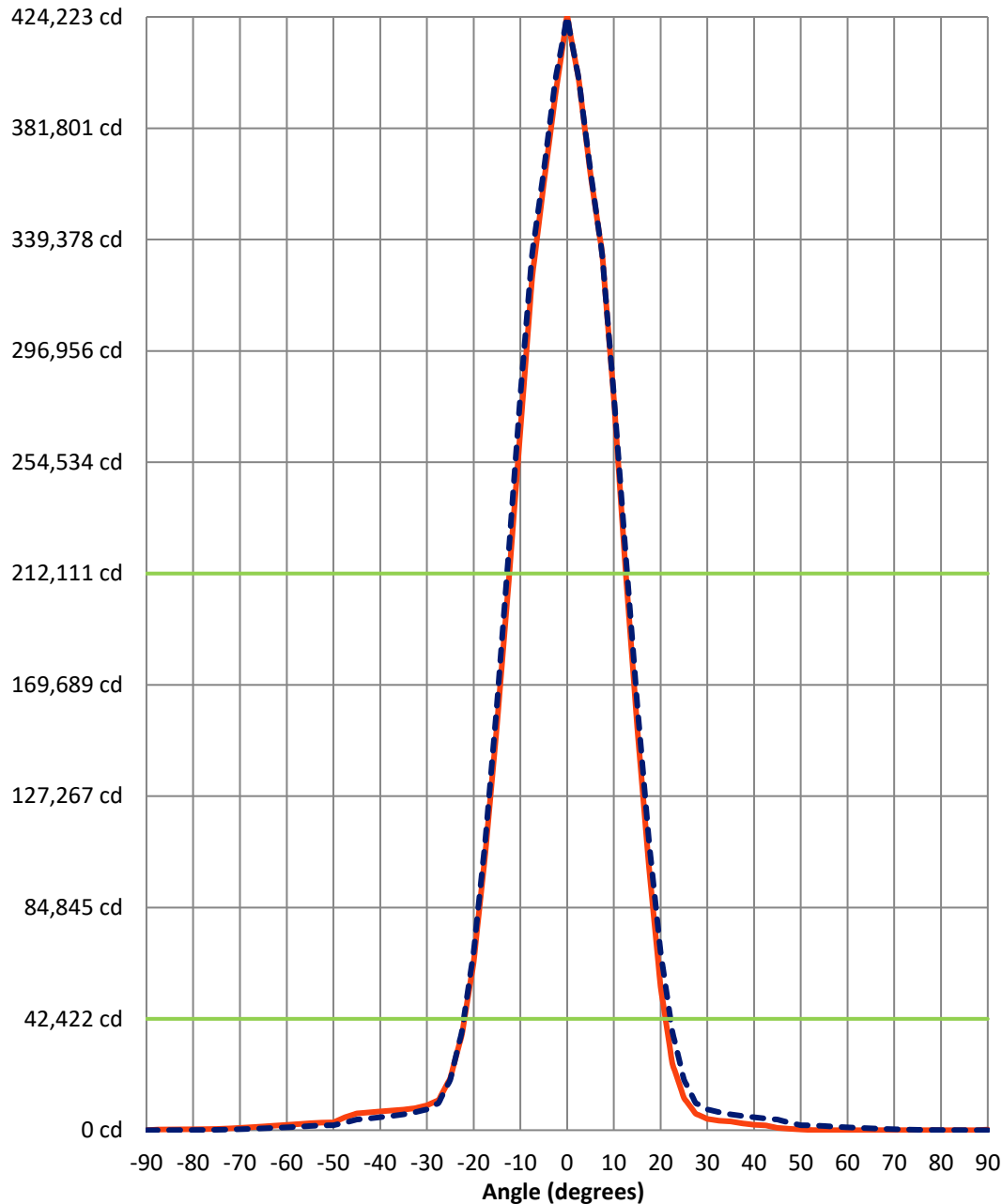
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 25.7°  
 V Angle: 24.9°  
 Lumens: 45601.9  
 Efficiency: 47.8%

**Field:**  
 H Angle: 44.2°  
 V Angle: 43°  
 Lumens: 79905.9  
 Efficiency: 83.8%

**Spill:**  
 Lumens: 15404.4  
 Efficiency: 16.2%

— 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°	3.4	14.2	25.0	40.3	55.6	68.7	81.8	91.5	101.1	109.1	117.0
87.5°	3.4	3.7	3.6	3.7	3.8	3.8	3.7	3.3	3.1	2.9	2.8
85°	3.4	3.9	3.8	4.0	4.2	4.1	4.0	3.8	3.8	3.6	3.2
82.5°	3.4	4.2	4.0	4.3	4.6	4.5	4.3	4.3	4.5	4.2	3.7
80°	3.4	4.5	4.2	4.6	5.0	4.9	4.6	4.9	5.0	4.6	4.2
77.5°	3.4	4.8	4.5	4.9	5.4	5.4	5.3	5.4	5.4	5.1	4.8
75°	3.4	5.1	4.7	5.2	5.8	6.0	5.9	6.0	5.9	5.8	5.4
72.5°	3.4	5.3	5.0	5.5	6.4	6.7	6.6	6.7	6.8	6.5	6.0
70°	3.4	5.6	5.3	5.8	7.1	7.4	7.4	7.9	7.8	7.4	7.6
67.5°	3.4	5.9	5.6	6.5	7.7	8.1	8.8	9.1	8.9	9.4	9.5
65°	3.4	6.2	6.0	7.2	8.5	9.2	10.2	10.4	11.3	11.6	11.5
62.5°	3.4	6.5	6.3	7.9	9.2	10.7	11.8	12.6	13.9	13.9	13.9
60°	3.4	6.8	6.8	8.6	10.0	12.3	13.4	15.3	16.6	16.9	16.6
57.5°	3.4	7.1	7.5	9.3	11.5	13.9	15.9	18.0	20.1	20.5	22.5
55°	3.4	7.4	8.3	10.0	13.0	15.5	18.6	21.0	24.3	25.6	30.5
52.5°	3.4	7.7	9.1	10.8	14.7	17.4	21.3	25.2	28.7	35.2	39.1
50°	3.4	8.0	9.9	11.5	16.3	19.9	24.0	29.7	35.1	45.7	55.0
47.5°	3.4	8.3	10.8	12.4	18.0	22.6	27.0	34.4	45.7	57.1	74.2
45°	3.4	8.6	11.7	13.7	19.7	25.3	31.3	39.2	56.8	76.6	95.3
42.5°	3.4	9.0	12.5	15.0	21.5	28.2	35.6	47.3	68.5	97.7	127.7
40°	3.4	9.3	13.4	16.7	23.5	31.1	40.3	57.8	83.1	120.1	164.2
37.5°	3.4	9.6	14.3	18.6	25.8	34.1	45.4	68.5	103.7	146.9	203.3
35°	3.4	9.9	15.3	20.5	28.1	37.8	50.7	79.4	125.1	181.3	247.1
32.5°	3.4	10.2	16.2	22.4	30.4	42.0	57.3	90.8	147.3	215.9	290.5
30°	3.4	10.5	17.1	24.3	32.7	46.2	66.7	104.0	170.1	250.6	331.2
27.5°	3.4	10.8	18.1	26.1	35.7	50.4	76.0	121.4	193.3	285.3	369.0
25°	3.4	11.1	19.0	28.0	38.6	54.5	85.1	137.7	216.8	317.7	404.1
22.5°	3.4	11.4	19.9	29.9	41.5	58.7	94.0	153.1	238.3	339.7	442.5
20°	3.4	11.7	20.9	31.7	44.4	63.0	102.6	167.4	257.7	360.1	473.4
17.5°	3.4	12.0	21.8	33.5	47.1	67.1	110.7	180.7	275.1	378.9	502.4
15°	3.4	12.3	22.6	35.2	49.8	71.0	118.0	192.7	290.4	395.9	529.8
12.5°	3.4	12.5	23.5	36.9	52.4	74.7	124.9	203.3	306.1	411.2	555.5
10°	3.4	12.8	24.3	38.5	54.9	78.2	131.1	212.9	322.1	434.0	583.5
7.5°	3.4	13.0	25.1	40.1	57.3	81.4	136.8	221.3	336.8	456.9	618.5
5°	3.4	13.2	25.9	41.6	59.5	84.4	141.8	228.6	350.1	478.4	651.0
2.5°	3.4	13.4	26.6	43.0	61.6	87.2	146.2	234.7	361.7	498.1	680.4
0°	3.4	13.6	27.3	44.3	63.6	89.7	149.9	239.6	371.4	515.6	706.4
-2.5°	3.4	14.2	28.5	46.3	66.4	93.5	154.7	247.7	382.3	527.5	718.5
-5°	3.4	14.7	29.7	48.1	69.1	97.0	158.8	254.5	391.0	536.7	726.7
-7.5°	3.4	15.2	30.8	49.9	71.6	100.2	162.1	259.8	397.4	543.4	731.1
-10°	3.4	15.7	31.8	51.5	73.9	103.1	164.7	263.5	401.4	547.4	731.7
-12.5°	3.4	16.2	32.8	53.1	76.0	105.7	166.4	265.5	402.9	548.6	730.1
-15°	3.4	16.6	33.7	54.4	78.0	108.0	167.4	265.6	400.5	545.2	724.4
-17.5°	3.4	17.0	34.5	55.7	79.7	110.0	167.5	263.3	394.0	538.7	713.7
-20°	3.4	17.4	35.3	56.8	81.2	111.6	166.9	258.8	385.1	529.2	697.7



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 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.4	17.8	35.9	57.8	82.5	112.9	165.6	252.7	374.0	516.6	676.8
-25°	3.4	18.1	36.5	58.6	83.6	114.1	163.4	245.1	360.5	500.9	654.8
-27.5°	3.4	18.4	37.1	59.3	84.5	115.0	160.4	235.8	344.8	486.6	639.1
-30°	3.4	18.6	37.5	59.8	85.2	115.6	156.5	225.0	332.0	470.8	620.1
-32.5°	3.4	18.8	37.9	60.2	86.0	115.8	151.7	218.0	321.0	452.4	597.5
-35°	3.4	19.0	38.1	60.4	86.6	115.8	150.0	212.0	307.2	431.5	571.1
-37.5°	3.4	19.2	38.3	60.5	87.0	115.7	149.5	205.2	290.5	408.2	543.3
-40°	3.4	19.3	38.4	60.4	87.2	115.9	148.6	197.0	271.0	385.3	511.9
-42.5°	3.4	19.3	38.5	60.2	87.2	115.8	147.3	187.3	256.4	358.0	475.6
-45°	3.4	19.4	38.4	60.2	87.1	115.5	145.5	180.0	243.7	327.5	435.6
-47.5°	3.4	19.4	38.2	59.9	86.8	114.9	143.1	177.2	229.2	294.8	398.4
-50°	3.4	19.3	38.0	59.7	86.2	114.0	141.5	173.7	212.1	275.3	358.1
-52.5°	3.4	19.3	37.7	59.5	85.3	112.8	139.7	169.5	202.7	254.3	316.6
-55°	3.4	19.2	37.3	59.1	84.3	111.2	137.5	164.9	196.5	231.8	290.2
-57.5°	3.4	19.0	36.8	58.6	83.0	109.2	134.9	161.8	189.7	220.6	262.5
-60°	3.4	18.8	36.2	57.9	81.5	107.0	132.1	157.9	183.0	212.3	239.5
-62.5°	3.4	18.6	35.7	57.0	80.2	104.5	129.0	153.5	177.5	203.0	228.2
-65°	3.4	18.4	35.0	56.0	78.8	101.7	125.6	148.7	171.6	194.7	216.0
-67.5°	3.4	18.1	34.3	54.9	77.1	99.0	121.9	143.8	165.1	186.5	205.8
-70°	3.4	17.8	33.6	53.6	75.3	96.2	117.9	138.6	158.9	178.0	196.4
-72.5°	3.4	17.4	32.7	52.4	73.3	93.1	113.7	133.1	152.2	169.7	186.7
-75°	3.4	17.0	31.8	51.0	71.0	89.8	109.2	127.2	145.2	161.0	176.4
-77.5°	3.4	16.6	30.8	49.5	68.8	86.2	104.4	120.9	137.6	151.9	165.7
-80°	3.4	16.2	29.7	47.8	66.5	82.9	99.4	114.4	129.7	142.4	154.9
-82.5°	3.4	15.7	28.6	46.1	63.9	79.5	95.2	108.2	121.4	132.8	144.0
-85°	3.4	15.2	27.5	44.3	61.3	76.1	90.9	102.8	114.7	124.4	134.0
-87.5°	3.4	14.7	26.3	42.3	58.5	72.4	86.4	97.2	108.0	116.8	125.6
-90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.9	2.3	2.3	2.3





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	123.3	129.5	135.2	140.8	145.9	151.0	157.9	164.7	169.8	174.9	180.0
87.5°	2.8	2.8	2.9	2.9	2.6	2.3	2.3	2.3	2.1	2.0	2.1
85°	3.3	3.4	3.4	3.4	3.0	2.6	2.7	2.8	2.8	2.9	2.6
82.5°	3.8	3.9	3.8	3.4	3.3	3.3	3.4	3.4	3.4	3.4	3.1
80°	4.3	4.5	4.1	3.8	3.9	4.0	3.8	3.5	3.4	3.5	3.6
77.5°	4.7	4.6	4.4	4.4	4.5	4.7	4.7	4.7	4.7	4.4	4.5
75°	5.1	4.7	4.8	4.7	4.7	5.3	5.7	5.7	5.5	5.3	5.4
72.5°	6.0	6.0	5.7	5.1	5.2	5.7	5.7	5.7	7.1	9.4	11.3
70°	7.5	7.3	6.9	6.5	6.3	6.7	8.6	11.7	15.2	18.4	21.5
67.5°	9.0	8.8	8.3	8.2	9.4	11.3	13.7	21.7	30.1	33.0	33.5
65°	10.7	10.4	10.5	11.8	13.4	19.1	26.5	36.1	44.1	43.6	40.2
62.5°	12.6	14.1	14.2	16.9	22.5	29.4	37.9	46.2	53.3	49.9	41.6
60°	18.0	19.0	21.6	26.8	32.6	39.4	48.2	50.9	52.7	51.4	40.4
57.5°	24.8	27.6	33.1	37.9	44.8	47.9	48.6	48.1	51.2	49.1	38.0
55°	34.6	39.7	47.0	52.0	56.0	50.0	49.4	52.5	52.1	47.7	36.9
52.5°	49.5	54.8	64.9	68.6	65.4	60.7	59.0	61.9	59.6	53.7	46.5
50°	65.6	78.4	85.1	88.0	82.2	81.6	75.7	79.4	82.6	79.7	89.8
47.5°	90.2	105.6	110.5	115.8	113.0	123.5	118.1	137.6	139.0	196.1	213.2
45°	119.9	140.5	146.3	160.0	175.1	193.2	224.6	232.9	326.9	384.1	451.7
42.5°	155.6	181.6	205.0	212.9	280.3	317.0	364.0	451.5	538.9	610.7	661.1
40°	201.6	228.0	277.6	336.8	408.5	470.8	560.7	661.9	745.2	800.4	826.3
37.5°	252.2	304.0	368.9	464.7	551.9	631.0	745.9	847.2	921.0	972.0	978.6
35°	306.6	380.1	486.5	583.5	673.5	780.7	894.8	1011.2	1071.7	1093.8	1187.6
32.5°	370.0	454.4	580.3	685.6	787.1	908.6	1029.8	1130.3	1183.9	1246.0	1563.6
30°	430.0	532.2	657.6	769.5	895.1	1033.5	1149.5	1244.3	1281.2	1607.6	2121.3
27.5°	477.8	599.8	725.6	860.6	1004.9	1163.1	1280.0	1341.6	1553.2	2036.1	2778.9
25°	522.5	653.7	794.3	962.9	1127.0	1283.9	1402.8	1442.2	1882.3	2701.2	3254.9
22.5°	566.1	706.2	870.1	1071.1	1239.2	1385.6	1485.0	1723.4	2354.2	3391.3	3678.8
20°	609.8	768.4	952.4	1153.0	1338.3	1475.0	1551.4	2020.1	2927.2	3656.5	3979.9
17.5°	651.8	831.0	1028.0	1221.8	1408.7	1547.3	1646.0	2270.3	3381.1	3894.3	4212.7
15°	692.8	884.5	1086.3	1286.4	1477.1	1610.5	1878.6	2637.3	3663.0	4182.2	4518.5
12.5°	732.1	930.2	1129.3	1342.5	1543.2	1672.0	2119.8	3082.1	3957.1	4465.8	4829.2
10°	769.2	968.7	1166.7	1393.6	1604.8	1725.5	2346.2	3497.7	4226.3	4667.6	4997.0
7.5°	806.6	1003.3	1200.5	1439.9	1662.8	1774.2	2537.6	3725.1	4332.0	4800.9	5115.4
5°	839.5	1035.3	1240.5	1496.9	1719.0	1819.0	2699.3	3878.1	4365.4	4867.4	5200.5
2.5°	867.8	1061.9	1275.5	1550.0	1769.6	1859.7	2809.4	3994.8	4405.9	4914.8	5306.5
0°	891.5	1083.4	1304.9	1595.6	1812.5	1896.6	2882.3	4057.8	4431.4	4935.6	5424.0
-2.5°	908.9	1112.0	1351.8	1634.3	1847.8	1935.1	2905.3	4084.8	4468.6	5050.2	5687.7
-5°	921.7	1135.0	1391.1	1665.1	1876.5	1970.6	2888.9	4059.6	4513.0	5156.0	5855.3
-7.5°	929.8	1151.5	1421.4	1688.0	1900.4	2010.6	2839.7	4030.7	4652.2	5288.7	5939.6
-10°	933.5	1160.1	1426.1	1696.6	1919.6	2050.6	2755.5	3932.8	4752.7	5339.4	5946.5
-12.5°	936.8	1161.8	1420.4	1695.1	1931.5	2087.2	2649.5	3815.3	4845.3	5358.5	5903.4
-15°	933.9	1158.3	1407.9	1684.6	1946.7	2133.5	2514.1	3597.4	4886.7	5338.4	5822.6
-17.5°	924.5	1149.4	1390.6	1671.0	1956.5	2176.6	2336.6	3261.5	4664.6	5276.9	5761.0
-20°	908.4	1133.3	1365.9	1645.0	1951.2	2195.3	2332.1	3015.7	4199.1	5155.8	5669.5



REPORT NUMBER: P731629 (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°	887.1	1110.5	1336.3	1610.4	1920.5	2187.7	2364.6	2744.8	3671.7	4978.5	5531.6
-25°	862.2	1081.6	1306.0	1573.2	1877.6	2173.0	2382.5	2495.2	3235.7	4377.3	5312.5
-27.5°	833.5	1047.1	1271.4	1523.5	1821.6	2129.3	2353.4	2502.2	2881.2	3689.9	4979.6
-30°	799.5	1007.4	1226.6	1465.8	1753.1	2046.7	2303.7	2493.2	2603.9	3220.8	4257.6
-32.5°	761.1	961.6	1175.7	1410.6	1675.7	1957.9	2229.6	2434.5	2586.3	2788.3	3578.0
-35°	724.4	914.7	1119.2	1348.3	1592.7	1857.8	2112.7	2354.6	2544.9	2675.0	2996.1
-37.5°	692.0	863.7	1060.1	1280.7	1516.1	1742.9	1986.5	2235.8	2454.0	2633.9	2747.5
-40°	655.0	808.7	999.2	1207.7	1417.4	1626.8	1854.3	2092.4	2332.8	2530.3	2703.6
-42.5°	613.5	762.4	933.0	1122.7	1315.4	1513.3	1715.8	1941.2	2167.8	2393.0	2575.7
-45°	567.5	710.7	862.3	1032.8	1207.7	1394.3	1586.2	1781.0	1995.3	2207.9	2407.8
-47.5°	515.7	653.3	797.8	937.1	1099.3	1270.7	1449.8	1633.6	1817.0	2012.2	2205.3
-50°	461.6	589.4	722.7	850.2	989.0	1144.9	1309.4	1480.5	1653.5	1817.3	1987.1
-52.5°	411.5	519.7	641.7	764.0	885.8	1018.4	1167.0	1321.6	1481.7	1641.2	1784.8
-55°	357.4	454.7	556.1	671.5	787.9	902.6	1023.3	1163.1	1299.1	1445.8	1586.9
-57.5°	317.0	388.5	477.5	573.4	682.4	793.3	900.1	1005.5	1124.0	1246.7	1371.2
-60°	284.8	335.0	402.9	484.7	570.6	672.9	777.9	875.1	964.7	1056.0	1168.7
-62.5°	254.9	296.2	343.4	400.3	475.0	551.1	641.4	734.1	821.1	904.7	988.6
-65°	240.4	262.1	297.8	340.3	383.0	447.8	517.0	588.0	667.8	744.4	822.4
-67.5°	225.2	245.7	265.5	288.7	327.1	364.9	402.3	464.8	527.2	583.6	640.4
-70°	213.5	229.6	247.4	264.6	282.0	304.3	338.3	373.2	407.1	444.4	492.1
-72.5°	202.0	216.4	230.7	244.7	260.4	276.4	292.7	309.8	334.6	363.4	389.5
-75°	190.2	202.8	215.3	227.9	240.9	254.1	267.9	283.0	298.4	313.9	327.7
-77.5°	178.2	190.0	200.7	211.3	222.4	234.2	246.5	258.8	271.5	284.3	295.1
-80°	166.0	177.0	186.5	195.8	205.3	215.0	225.5	236.1	246.8	257.6	267.0
-82.5°	153.5	162.9	171.4	179.7	187.9	196.0	205.1	214.3	223.6	232.8	240.8
-85°	141.4	148.6	155.9	163.1	170.3	177.4	185.5	193.6	201.4	209.1	215.9
-87.5°	132.4	139.1	145.2	151.2	156.9	162.6	169.7	176.6	182.7	188.8	194.4
-90°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.7	1.1	1.1



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	185.1	188.5	191.9	194.8	197.6	201.6	205.6	211.3	216.9	223.7	230.5
87.5°	2.1	2.1	2.1	1.6	1.1	1.1	1.1	1.1	1.1	1.7	2.3
85°	2.3	2.3	2.3	2.6	3.0	3.0	3.1	3.2	3.2	3.3	3.4
82.5°	2.8	2.9	3.0	3.2	3.4	3.4	3.4	3.4	3.4	3.9	4.4
80°	3.7	3.8	3.9	4.0	4.1	3.8	3.4	3.4	3.4	3.9	4.5
77.5°	4.6	4.7	4.5	4.3	4.0	3.7	3.4	3.4	3.4	3.5	3.5
75°	5.6	5.7	6.0	6.4	6.9	7.0	6.5	6.6	7.0	6.9	6.6
72.5°	12.5	12.9	12.9	14.4	15.8	16.3	16.6	17.8	19.1	20.8	22.8
70°	24.4	26.9	27.9	28.0	26.9	26.2	25.7	25.5	26.0	27.2	28.7
67.5°	35.2	36.2	35.7	35.3	33.2	30.7	27.8	26.3	26.9	28.2	30.0
65°	39.7	36.6	34.4	33.5	31.6	28.5	24.1	21.1	20.5	20.0	19.9
62.5°	35.8	30.2	27.5	25.9	23.2	20.6	16.6	13.4	12.3	11.5	11.4
60°	31.2	24.2	19.9	17.9	15.0	11.6	9.6	7.3	6.6	6.1	6.2
57.5°	27.1	20.0	15.1	14.2	11.5	9.0	7.2	5.3	4.8	4.5	4.7
55°	27.8	24.3	20.3	18.3	15.2	13.8	12.2	11.0	10.0	10.2	10.9
52.5°	39.4	42.3	37.3	36.0	44.7	44.8	37.0	49.0	56.4	62.0	63.6
50°	101.7	101.0	134.2	128.6	159.3	184.3	185.3	200.6	229.7	249.6	260.3
47.5°	270.1	300.4	339.1	379.7	411.5	451.2	491.3	521.3	528.7	529.5	534.7
45°	508.4	551.7	609.9	652.6	712.8	749.9	780.6	808.5	872.8	932.1	1001.1
42.5°	710.0	757.2	817.6	904.4	967.7	1136.8	1395.5	1459.0	1468.2	1520.8	1597.4
40°	869.1	931.1	1065.2	1255.3	1660.5	2023.9	2089.4	2144.0	2168.0	2138.8	2190.9
37.5°	1061.7	1207.0	1508.9	2028.9	2221.0	2319.9	2389.5	2431.4	2482.1	2529.0	2554.5
35°	1381.5	1786.5	2051.1	2328.8	2454.5	2504.6	2555.7	2607.2	2647.1	2699.0	2740.5
32.5°	2037.9	2488.8	2515.4	2584.0	2649.5	2714.7	2762.3	2811.4	2854.0	2921.3	3062.5
30°	2699.2	2797.5	2821.6	2827.8	2887.5	2965.6	3007.1	3106.1	3239.7	3393.1	3719.4
27.5°	3051.2	3118.8	3132.9	3139.7	3167.5	3260.0	3431.3	3566.5	3887.3	4276.8	5115.3
25°	3479.9	3528.0	3579.0	3576.8	3619.1	3782.8	4117.9	4403.2	5487.3	6501.6	8687.1
22.5°	3888.8	4034.3	4106.8	4203.9	4347.5	4645.4	5233.3	6884.5	9645.4	13168.7	17554.8
20°	4173.0	4368.8	4563.8	4834.8	5181.7	5800.1	7636.5	12577.8	18478.7	27041.2	34222.9
17.5°	4459.7	4680.8	5025.8	5443.9	6026.5	8102.8	13486.8	21876.9	33994.9	49196.1	62533.6
15°	4833.6	5096.0	5557.9	6154.8	7782.6	12214.8	21196.2	36462.6	54884.5	76253.0	98668.4
12.5°	5088.1	5449.7	5998.8	6769.8	9441.6	17742.7	32203.7	53132.1	78486.8	105411.8	141142.4
10°	5276.3	5708.7	6454.5	8052.9	12897.8	23844.3	41221.8	67340.2	102100.7	143136.3	183987.1
7.5°	5434.3	6016.5	6952.9	8967.1	15879.7	29680.5	51831.4	83577.3	124704.8	174150.7	221656.6
5°	5576.2	6348.2	7432.5	9952.4	18551.5	33906.2	58887.1	95703.4	143329.4	197332.5	249782.4
2.5°	5763.9	6658.7	7743.6	10223.6	19620.9	36247.5	64477.9	105495.0	156627.2	213434.8	270500.4
0°	6024.7	6860.6	7933.8	10397.1	19288.3	37714.6	67904.2	110409.0	162454.7	220198.0	280050.3
-2.5°	6229.8	6977.0	8044.6	10257.3	19125.6	37024.6	66357.9	107544.6	156749.4	212546.2	272249.6
-5°	6362.3	7060.4	8093.2	10309.6	18715.3	34387.7	61790.5	100039.3	145131.2	195498.5	250706.2
-7.5°	6439.8	7090.9	8042.8	9980.8	16851.2	30795.2	53660.9	86205.5	126656.6	173263.7	218889.1
-10°	6486.3	7071.1	7937.4	9515.8	14174.3	25026.7	42364.1	69946.4	104995.0	142550.4	179870.4
-12.5°	6503.7	7029.4	7789.0	8849.7	11364.4	19592.8	33723.4	53298.6	79315.4	110122.4	143007.4
-15°	6469.6	6968.7	7645.5	8563.8	10236.9	14687.8	23531.6	36845.0	56237.1	79758.2	103588.3
-17.5°	6342.5	6906.0	7432.9	8138.1	9122.8	11221.8	16604.4	25149.8	36975.5	52522.7	66271.3
-20°	6174.2	6787.7	7238.9	7862.1	8635.3	9596.0	11322.2	16537.4	23168.5	32169.3	41142.7



REPORT NUMBER: P731629 (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°	6024.3	6585.6	7152.8	7580.6	8186.2	8817.7	9597.3	11089.1	14421.1	18914.8	24603.3
-25°	5886.0	6399.9	6981.9	7444.5	7786.2	8232.5	8720.9	9243.5	10375.4	11436.5	14180.8
-27.5°	5691.2	6223.6	6728.4	7222.2	7551.4	7754.0	8086.8	8411.5	8885.5	9307.1	10113.1
-30°	5464.8	5985.6	6465.9	6914.5	7251.8	7464.9	7629.9	7853.3	8104.1	8359.3	8705.6
-32.5°	4657.6	5706.0	6153.1	6558.2	6906.1	7156.6	7331.3	7478.0	7622.8	7786.1	7968.7
-35°	3773.4	4808.9	5817.8	6133.6	6462.4	6794.1	7053.1	7191.6	7317.6	7432.0	7543.7
-37.5°	3068.0	3798.5	4704.0	5564.6	5964.1	6299.1	6610.5	6852.3	7028.9	7136.3	7236.7
-40°	2791.9	2976.9	3673.3	4382.1	5063.6	5682.4	5999.1	6356.6	6647.1	6804.7	6913.9
-42.5°	2725.8	2810.8	2875.8	3324.8	3867.0	4388.7	4966.1	5539.3	5989.0	6288.8	6511.8
-45°	2581.2	2703.5	2800.5	2840.6	2865.1	3245.5	3692.6	4130.3	4635.3	5157.0	5630.7
-47.5°	2376.4	2535.4	2645.0	2730.7	2782.0	2798.1	2829.5	2927.7	3294.3	3680.0	4047.1
-50°	2147.9	2293.6	2424.9	2544.2	2615.2	2672.7	2727.7	2780.5	2825.2	2881.7	2932.5
-52.5°	1917.7	2051.4	2169.4	2274.1	2368.1	2458.9	2546.2	2611.4	2675.2	2743.6	2799.3
-55°	1712.8	1821.1	1920.0	2011.9	2096.8	2173.5	2252.4	2336.7	2423.9	2509.2	2575.5
-57.5°	1493.7	1597.3	1691.0	1768.9	1837.1	1894.4	1966.8	2045.8	2127.9	2203.9	2261.6
-60°	1272.8	1364.3	1450.1	1525.5	1590.3	1643.6	1710.5	1777.4	1850.6	1915.6	1967.0
-62.5°	1062.8	1140.1	1212.9	1278.9	1337.7	1391.8	1451.2	1510.9	1579.7	1640.2	1689.3
-65°	888.4	948.3	998.1	1044.9	1081.3	1128.1	1185.6	1240.7	1300.6	1353.0	1396.7
-67.5°	699.5	754.7	800.4	841.3	873.3	906.7	949.3	993.1	1039.6	1081.2	1117.9
-70°	534.5	571.6	601.2	631.7	664.6	696.5	730.6	768.1	807.0	841.4	871.6
-72.5°	412.3	430.7	447.9	472.8	494.8	517.0	538.6	565.5	594.4	620.5	644.1
-75°	340.6	352.0	365.2	377.0	387.2	399.1	411.0	428.4	447.4	465.4	482.2
-77.5°	305.6	313.8	320.5	326.0	330.7	337.9	345.6	358.6	372.6	387.7	402.9
-80°	275.9	282.2	287.8	292.6	296.9	302.9	309.0	320.4	332.4	345.2	357.9
-82.5°	248.4	253.4	257.9	262.3	266.5	271.6	276.6	286.6	296.9	307.6	318.3
-85°	222.6	226.8	230.8	234.4	237.8	242.1	246.4	255.0	263.6	272.7	281.7
-87.5°	200.0	203.8	207.6	210.9	214.1	217.8	221.6	229.1	236.7	244.2	251.7
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



REPORT NUMBER: P731629 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	231.1	231.7	232.3	232.8	232.3	231.7	231.1	230.5	223.7	216.9	211.3
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.7	1.1	1.1
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.2	3.2
82.5°	3.9	3.4	3.9	4.5	3.9	3.4	3.9	4.4	3.9	3.4	3.4
80°	4.0	3.4	3.9	4.5	3.9	3.4	4.0	4.5	3.9	3.4	3.4
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.4	3.4
75°	5.6	4.6	4.0	3.4	4.0	4.6	5.6	6.6	6.9	7.0	6.6
72.5°	23.3	23.3	23.7	23.8	23.7	23.3	23.3	22.8	20.8	19.1	17.8
70°	29.6	30.4	30.6	30.7	30.6	30.4	29.6	28.7	27.2	26.0	25.5
67.5°	30.2	29.6	29.0	28.4	29.0	29.6	30.2	30.0	28.2	26.9	26.3
65°	18.9	17.6	15.6	13.6	15.6	17.6	18.9	19.9	20.0	20.5	21.1
62.5°	11.0	10.5	10.3	10.2	10.3	10.5	11.0	11.4	11.5	12.3	13.4
60°	6.5	6.8	6.8	6.8	6.8	6.8	6.5	6.2	6.1	6.6	7.3
57.5°	4.9	5.5	6.2	6.8	6.2	5.5	4.9	4.7	4.5	4.8	5.3
55°	11.6	12.9	13.5	13.6	13.5	12.9	11.6	10.9	10.2	10.0	11.0
52.5°	61.3	58.2	55.5	53.4	55.5	58.2	61.3	63.6	62.0	56.4	49.0
50°	265.1	272.0	275.2	274.8	275.2	272.0	265.1	260.3	249.6	229.7	200.6
47.5°	546.0	549.9	546.7	538.3	546.7	549.9	546.0	534.7	529.5	528.7	521.3
45°	1085.5	1038.5	955.0	881.3	955.0	1038.5	1085.5	1001.1	932.1	872.8	808.5
42.5°	1699.2	1755.5	1797.7	1817.1	1797.7	1755.5	1699.2	1597.4	1520.8	1468.2	1459.0
40°	2132.4	2072.3	2060.1	2069.2	2060.1	2072.3	2132.4	2190.9	2138.8	2168.0	2144.0
37.5°	2561.0	2615.6	2656.1	2590.5	2656.1	2615.6	2561.0	2554.5	2529.0	2482.1	2431.4
35°	2837.1	3031.4	3259.5	3328.7	3259.5	3031.4	2837.1	2740.5	2699.0	2647.1	2607.2
32.5°	3299.0	3504.2	3593.0	3614.8	3593.0	3504.2	3299.0	3062.5	2921.3	2854.0	2811.4
30°	4033.8	4238.8	4275.6	4305.3	4275.6	4238.8	4033.8	3719.4	3393.1	3239.7	3106.1
27.5°	5671.7	6130.2	6239.0	6315.5	6239.0	6130.2	5671.7	5115.3	4276.8	3887.3	3566.5
25°	10412.5	11605.1	12384.0	12308.4	12384.0	11605.1	10412.5	8687.1	6501.6	5487.3	4403.2
22.5°	21949.6	24290.5	25539.6	25517.4	25539.6	24290.5	21949.6	17554.8	13168.7	9645.4	6884.5
20°	44454.5	51381.0	55130.2	54703.1	55130.2	51381.0	44454.5	34222.9	27041.2	18478.7	12577.8
17.5°	77514.4	90892.6	100238.9	100621.8	100238.9	90892.6	77514.4	62533.6	49196.1	33994.9	21876.9
15°	119860.4	139710.3	153723.1	153721.4	153723.1	139710.3	119860.4	98668.4	76253.0	54884.5	36462.6
12.5°	171397.9	195125.0	211157.9	213562.3	211157.9	195125.0	171397.9	141142.4	105411.8	78486.8	53132.1
10°	220860.2	247736.0	271974.2	278647.7	271974.2	247736.0	220860.2	183987.1	143136.3	102100.7	67340.2
7.5°	262726.2	305003.8	327082.4	334036.2	327082.4	305003.8	262726.2	221656.6	174150.7	124704.8	83577.3
5°	303820.2	340415.0	358951.9	364318.4	358951.9	340415.0	303820.2	249782.4	197332.5	143329.4	95703.4
2.5°	325436.9	359027.3	385081.2	400191.0	385081.2	359027.3	325436.9	270500.4	213434.8	156627.2	105495.0
0°	333570.1	365483.6	400424.3	424222.9	400424.3	365483.6	333570.1	280050.3	220198.0	162454.7	110409.0
-2.5°	325435.1	356315.4	382064.4	394600.6	382064.4	356315.4	325435.1	272249.6	212546.2	156749.4	107544.6
-5°	300775.5	337097.6	355844.9	360591.1	355844.9	337097.6	300775.5	250706.2	195498.5	145131.2	100039.3
-7.5°	261390.5	296323.2	319308.6	324485.8	319308.6	296323.2	261390.5	218889.1	173263.7	126656.6	86205.5
-10°	217543.6	247382.0	262888.6	266723.2	262888.6	247382.0	217543.6	179870.4	142550.4	104995.0	69946.4
-12.5°	169036.2	190918.3	206747.4	208895.8	206747.4	190918.3	169036.2	143007.4	110122.4	79315.4	53298.6
-15°	125821.3	140293.1	153054.5	154520.9	153054.5	140293.1	125821.3	103588.3	79758.2	56237.1	36845.0
-17.5°	84293.8	96275.1	103415.5	105475.7	103415.5	96275.1	84293.8	66271.3	52522.7	36975.5	25149.8
-20°	50505.9	59079.5	63838.0	64016.8	63838.0	59079.5	50505.9	41142.7	32169.3	23168.5	16537.4



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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°	29301.1	34071.4	36589.1	36540.3	36589.1	34071.4	29301.1	24603.3	18914.8	14421.1	11089.1
-25°	16898.5	18987.2	19820.8	19850.4	19820.8	18987.2	16898.5	14180.8	11436.5	10375.4	9243.5
-27.5°	10760.0	11239.5	11431.6	11462.4	11431.6	11239.5	10760.0	10113.1	9307.1	8885.5	8411.5
-30°	9021.4	9301.9	9430.8	9467.0	9430.8	9301.9	9021.4	8705.6	8359.3	8104.1	7853.3
-32.5°	8140.0	8294.6	8398.8	8383.5	8398.8	8294.6	8140.0	7968.7	7786.1	7622.8	7478.0
-35°	7652.8	7748.4	7807.0	7835.0	7807.0	7748.4	7652.8	7543.7	7432.0	7317.6	7191.6
-37.5°	7336.8	7422.3	7477.8	7494.3	7477.8	7422.3	7336.8	7236.7	7136.3	7028.9	6852.3
-40°	7008.0	7079.2	7124.7	7141.1	7124.7	7079.2	7008.0	6913.9	6804.7	6647.1	6356.6
-42.5°	6653.1	6729.6	6766.0	6766.3	6766.0	6729.6	6653.1	6511.8	6288.8	5989.0	5539.3
-45°	6019.3	6254.6	6372.5	6377.9	6372.5	6254.6	6019.3	5630.7	5157.0	4635.3	4130.3
-47.5°	4381.1	4613.6	4800.6	4939.0	4800.6	4613.6	4381.1	4047.1	3680.0	3294.3	2927.7
-50°	2977.0	2992.4	2993.4	2980.0	2993.4	2992.4	2977.0	2932.5	2881.7	2825.2	2780.5
-52.5°	2842.7	2858.6	2870.2	2876.7	2870.2	2858.6	2842.7	2799.3	2743.6	2675.2	2611.4
-55°	2624.5	2644.6	2652.8	2649.5	2652.8	2644.6	2624.5	2575.5	2509.2	2423.9	2336.7
-57.5°	2300.3	2313.5	2319.7	2317.9	2319.7	2313.5	2300.3	2261.6	2203.9	2127.9	2045.8
-60°	1998.4	2008.3	2013.9	2013.5	2013.9	2008.3	1998.4	1967.0	1915.6	1850.6	1777.4
-62.5°	1716.9	1725.8	1732.2	1733.0	1732.2	1725.8	1716.9	1689.3	1640.2	1579.7	1510.9
-65°	1418.7	1425.3	1429.5	1428.7	1429.5	1425.3	1418.7	1396.7	1353.0	1300.6	1240.7
-67.5°	1134.0	1138.7	1142.6	1142.5	1142.6	1138.7	1134.0	1117.9	1081.2	1039.6	993.1
-70°	881.3	881.7	883.6	882.4	883.6	881.7	881.3	871.6	841.4	807.0	768.1
-72.5°	649.5	648.9	648.6	646.2	648.6	648.9	649.5	644.1	620.5	594.4	565.5
-75°	483.9	482.2	480.6	478.1	480.6	482.2	483.9	482.2	465.4	447.4	428.4
-77.5°	404.6	404.6	401.9	398.6	401.9	404.6	404.6	402.9	387.7	372.6	358.6
-80°	358.7	358.3	357.1	355.5	357.1	358.3	358.7	357.9	345.2	332.4	320.4
-82.5°	319.3	319.9	319.6	319.1	319.6	319.9	319.3	318.3	307.6	296.9	286.6
-85°	282.8	283.7	283.3	282.8	283.3	283.7	282.8	281.7	272.7	263.6	255.0
-87.5°	252.5	253.2	253.3	253.3	253.3	253.2	252.5	251.7	244.2	236.7	229.1
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	205.6	201.6	197.6	194.8	191.9	188.5	185.1	180.0	174.9	169.8	164.7
87.5°	1.1	1.1	1.1	1.6	2.1	2.1	2.1	2.1	2.0	2.1	2.3
85°	3.1	3.0	3.0	2.6	2.3	2.3	2.3	2.6	2.9	2.8	2.8
82.5°	3.4	3.4	3.4	3.2	3.0	2.9	2.8	3.1	3.4	3.4	3.4
80°	3.4	3.8	4.1	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.5
77.5°	3.4	3.7	4.0	4.3	4.5	4.7	4.6	4.5	4.4	4.7	4.7
75°	6.5	7.0	6.9	6.4	6.0	5.7	5.6	5.4	5.3	5.5	5.7
72.5°	16.6	16.3	15.8	14.4	12.9	12.9	12.5	11.3	9.4	7.1	5.7
70°	25.7	26.2	26.9	28.0	27.9	26.9	24.4	21.5	18.4	15.2	11.7
67.5°	27.8	30.7	33.2	35.3	35.7	36.2	35.2	33.5	33.0	30.1	21.7
65°	24.1	28.5	31.6	33.5	34.4	36.6	39.7	40.2	43.6	44.1	36.1
62.5°	16.6	20.6	23.2	25.9	27.5	30.2	35.8	41.6	49.9	53.3	46.2
60°	9.6	11.6	15.0	17.9	19.9	24.2	31.2	40.4	51.4	52.7	50.9
57.5°	7.2	9.0	11.5	14.2	15.1	20.0	27.1	38.0	49.1	51.2	48.1
55°	12.2	13.8	15.2	18.3	20.3	24.3	27.8	36.9	47.7	52.1	52.5
52.5°	37.0	44.8	44.7	36.0	37.3	42.3	39.4	46.5	53.7	59.6	61.9
50°	185.3	184.3	159.3	128.6	134.2	101.0	101.7	89.8	79.7	82.6	79.4
47.5°	491.3	451.2	411.5	379.7	339.1	300.4	270.1	213.2	196.1	139.0	137.6
45°	780.6	749.9	712.8	652.6	609.9	551.7	508.4	451.7	384.1	326.9	232.9
42.5°	1395.5	1136.8	967.7	904.4	817.6	757.2	710.0	661.1	610.7	538.9	451.5
40°	2089.4	2023.9	1660.5	1255.3	1065.2	931.1	869.1	826.3	800.4	745.2	661.9
37.5°	2389.5	2319.9	2221.0	2028.9	1508.9	1207.0	1061.7	978.6	972.0	921.0	847.2
35°	2555.7	2504.6	2454.5	2328.8	2051.1	1786.5	1381.5	1187.6	1093.8	1071.7	1011.2
32.5°	2762.3	2714.7	2649.5	2584.0	2515.4	2488.8	2037.9	1563.6	1246.0	1183.9	1130.3
30°	3007.1	2965.6	2887.5	2827.8	2821.6	2797.5	2699.2	2121.3	1607.6	1281.2	1244.3
27.5°	3431.3	3260.0	3167.5	3139.7	3132.9	3118.8	3051.2	2778.9	2036.1	1553.2	1341.6
25°	4117.9	3782.8	3619.1	3576.8	3579.0	3528.0	3479.9	3254.9	2701.2	1882.3	1442.2
22.5°	5233.3	4645.4	4347.5	4203.9	4106.8	4034.3	3888.8	3678.8	3391.3	2354.2	1723.4
20°	7636.5	5800.1	5181.7	4834.8	4563.8	4368.8	4173.0	3979.9	3656.5	2927.2	2020.1
17.5°	13486.8	8102.8	6026.5	5443.9	5025.8	4680.8	4459.7	4212.7	3894.3	3381.1	2270.3
15°	21196.2	12214.8	7782.6	6154.8	5557.9	5096.0	4833.6	4518.5	4182.2	3663.0	2637.3
12.5°	32203.7	17742.7	9441.6	6769.8	5998.8	5449.7	5088.1	4829.2	4465.8	3957.1	3082.1
10°	41221.8	23844.3	12897.8	8052.9	6454.5	5708.7	5276.3	4997.0	4667.6	4226.3	3497.7
7.5°	51831.4	29680.5	15879.7	8967.1	6952.9	6016.5	5434.3	5115.4	4800.9	4332.0	3725.1
5°	58887.1	33906.2	18551.5	9952.4	7432.5	6348.2	5576.2	5200.5	4867.4	4365.4	3878.1
2.5°	64477.9	36247.5	19620.9	10223.6	7743.6	6658.7	5763.9	5306.5	4914.8	4405.9	3994.8
0°	67904.2	37714.6	19288.3	10397.1	7933.8	6860.6	6024.7	5424.0	4935.6	4431.4	4057.8
-2.5°	66357.9	37024.6	19125.6	10257.3	8044.6	6977.0	6229.8	5687.7	5050.2	4468.6	4084.8
-5°	61790.5	34387.7	18715.3	10309.6	8093.2	7060.4	6362.3	5855.3	5156.0	4513.0	4059.6
-7.5°	53660.9	30795.2	16851.2	9980.8	8042.8	7090.9	6439.8	5939.6	5288.7	4652.2	4030.7
-10°	42364.1	25026.7	14174.3	9515.8	7937.4	7071.1	6486.3	5946.5	5339.4	4752.7	3932.8
-12.5°	33723.4	19592.8	11364.4	8849.7	7789.0	7029.4	6503.7	5903.4	5358.5	4845.3	3815.3
-15°	23531.6	14687.8	10236.9	8563.8	7645.5	6968.7	6469.6	5822.6	5338.4	4886.7	3597.4
-17.5°	16604.4	11221.8	9122.8	8138.1	7432.9	6906.0	6342.5	5761.0	5276.9	4664.6	3261.5
-20°	11322.2	9596.0	8635.3	7862.1	7238.9	6787.7	6174.2	5669.5	5155.8	4199.1	3015.7



REPORT NUMBER: P731629 (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°	9597.3	8817.7	8186.2	7580.6	7152.8	6585.6	6024.3	5531.6	4978.5	3671.7	2744.8
-25°	8720.9	8232.5	7786.2	7444.5	6981.9	6399.9	5886.0	5312.5	4377.3	3235.7	2495.2
-27.5°	8086.8	7754.0	7551.4	7222.2	6728.4	6223.6	5691.2	4979.6	3689.9	2881.2	2502.2
-30°	7629.9	7464.9	7251.8	6914.5	6465.9	5985.6	5464.8	4257.6	3220.8	2603.9	2493.2
-32.5°	7331.3	7156.6	6906.1	6558.2	6153.1	5706.0	4657.6	3578.0	2788.3	2586.3	2434.5
-35°	7053.1	6794.1	6462.4	6133.6	5817.8	4808.9	3773.4	2996.1	2675.0	2544.9	2354.6
-37.5°	6610.5	6299.1	5964.1	5564.6	4704.0	3798.5	3068.0	2747.5	2633.9	2454.0	2235.8
-40°	5999.1	5682.4	5063.6	4382.1	3673.3	2976.9	2791.9	2703.6	2530.3	2332.8	2092.4
-42.5°	4966.1	4388.7	3867.0	3324.8	2875.8	2810.8	2725.8	2575.7	2393.0	2167.8	1941.2
-45°	3692.6	3245.5	2865.1	2840.6	2800.5	2703.5	2581.2	2407.8	2207.9	1995.3	1781.0
-47.5°	2829.5	2798.1	2782.0	2730.7	2645.0	2535.4	2376.4	2205.3	2012.2	1817.0	1633.6
-50°	2727.7	2672.7	2615.2	2544.2	2424.9	2293.6	2147.9	1987.1	1817.3	1653.5	1480.5
-52.5°	2546.2	2458.9	2368.1	2274.1	2169.4	2051.4	1917.7	1784.8	1641.2	1481.7	1321.6
-55°	2252.4	2173.5	2096.8	2011.9	1920.0	1821.1	1712.8	1586.9	1445.8	1299.1	1163.1
-57.5°	1966.8	1894.4	1837.1	1768.9	1691.0	1597.3	1493.7	1371.2	1246.7	1124.0	1005.5
-60°	1710.5	1643.6	1590.3	1525.5	1450.1	1364.3	1272.8	1168.7	1056.0	964.7	875.1
-62.5°	1451.2	1391.8	1337.7	1278.9	1212.9	1140.1	1062.8	988.6	904.7	821.1	734.1
-65°	1185.6	1128.1	1081.3	1044.9	998.1	948.3	888.4	822.4	744.4	667.8	588.0
-67.5°	949.3	906.7	873.3	841.3	800.4	754.7	699.5	640.4	583.6	527.2	464.8
-70°	730.6	696.5	664.6	631.7	601.2	571.6	534.5	492.1	444.4	407.1	373.2
-72.5°	538.6	517.0	494.8	472.8	447.9	430.7	412.3	389.5	363.4	334.6	309.8
-75°	411.0	399.1	387.2	377.0	365.2	352.0	340.6	327.7	313.9	298.4	283.0
-77.5°	345.6	337.9	330.7	326.0	320.5	313.8	305.6	295.1	284.3	271.5	258.8
-80°	309.0	302.9	296.9	292.6	287.8	282.2	275.9	267.0	257.6	246.8	236.1
-82.5°	276.6	271.6	266.5	262.3	257.9	253.4	248.4	240.8	232.8	223.6	214.3
-85°	246.4	242.1	237.8	234.4	230.8	226.8	222.6	215.9	209.1	201.4	193.6
-87.5°	221.6	217.8	214.1	210.9	207.6	203.8	200.0	194.4	188.8	182.7	176.6
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	2.3





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 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	157.9	151.0	145.9	140.8	135.2	129.5	123.3	117.0	109.1	101.1	91.5
87.5°	2.3	2.3	2.6	2.9	2.9	2.8	2.8	2.8	2.9	3.1	3.3
85°	2.7	2.6	3.0	3.4	3.4	3.4	3.3	3.2	3.6	3.8	3.8
82.5°	3.4	3.3	3.3	3.4	3.8	3.9	3.8	3.7	4.2	4.5	4.3
80°	3.8	4.0	3.9	3.8	4.1	4.5	4.3	4.2	4.6	5.0	4.9
77.5°	4.7	4.7	4.5	4.4	4.4	4.6	4.7	4.8	5.1	5.4	5.4
75°	5.7	5.3	4.7	4.7	4.8	4.7	5.1	5.4	5.8	5.9	6.0
72.5°	5.7	5.7	5.2	5.1	5.7	6.0	6.0	6.0	6.5	6.8	6.7
70°	8.6	6.7	6.3	6.5	6.9	7.3	7.5	7.6	7.4	7.8	7.9
67.5°	13.7	11.3	9.4	8.2	8.3	8.8	9.0	9.5	9.4	8.9	9.1
65°	26.5	19.1	13.4	11.8	10.5	10.4	10.7	11.5	11.6	11.3	10.4
62.5°	37.9	29.4	22.5	16.9	14.2	14.1	12.6	13.9	13.9	13.9	12.6
60°	48.2	39.4	32.6	26.8	21.6	19.0	18.0	16.6	16.9	16.6	15.3
57.5°	48.6	47.9	44.8	37.9	33.1	27.6	24.8	22.5	20.5	20.1	18.0
55°	49.4	50.0	56.0	52.0	47.0	39.7	34.6	30.5	25.6	24.3	21.0
52.5°	59.0	60.7	65.4	68.6	64.9	54.8	49.5	39.1	35.2	28.7	25.2
50°	75.7	81.6	82.2	88.0	85.1	78.4	65.6	55.0	45.7	35.1	29.7
47.5°	118.1	123.5	113.0	115.8	110.5	105.6	90.2	74.2	57.1	45.7	34.4
45°	224.6	193.2	175.1	160.0	146.3	140.5	119.9	95.3	76.6	56.8	39.2
42.5°	364.0	317.0	280.3	212.9	205.0	181.6	155.6	127.7	97.7	68.5	47.3
40°	560.7	470.8	408.5	336.8	277.6	228.0	201.6	164.2	120.1	83.1	57.8
37.5°	745.9	631.0	551.9	464.7	368.9	304.0	252.2	203.3	146.9	103.7	68.5
35°	894.8	780.7	673.5	583.5	486.5	380.1	306.6	247.1	181.3	125.1	79.4
32.5°	1029.8	908.6	787.1	685.6	580.3	454.4	370.0	290.5	215.9	147.3	90.8
30°	1149.5	1033.5	895.1	769.5	657.6	532.2	430.0	331.2	250.6	170.1	104.0
27.5°	1280.0	1163.1	1004.9	860.6	725.6	599.8	477.8	369.0	285.3	193.3	121.4
25°	1402.8	1283.9	1127.0	962.9	794.3	653.7	522.5	404.1	317.7	216.8	137.7
22.5°	1485.0	1385.6	1239.2	1071.1	870.1	706.2	566.1	442.5	339.7	238.3	153.1
20°	1551.4	1475.0	1338.3	1153.0	952.4	768.4	609.8	473.4	360.1	257.7	167.4
17.5°	1646.0	1547.3	1408.7	1221.8	1028.0	831.0	651.8	502.4	378.9	275.1	180.7
15°	1878.6	1610.5	1477.1	1286.4	1086.3	884.5	692.8	529.8	395.9	290.4	192.7
12.5°	2119.8	1672.0	1543.2	1342.5	1129.3	930.2	732.1	555.5	411.2	306.1	203.3
10°	2346.2	1725.5	1604.8	1393.6	1166.7	968.7	769.2	583.5	434.0	322.1	212.9
7.5°	2537.6	1774.2	1662.8	1439.9	1200.5	1003.3	806.6	618.5	456.9	336.8	221.3
5°	2699.3	1819.0	1719.0	1496.9	1240.5	1035.3	839.5	651.0	478.4	350.1	228.6
2.5°	2809.4	1859.7	1769.6	1550.0	1275.5	1061.9	867.8	680.4	498.1	361.7	234.7
0°	2882.3	1896.6	1812.5	1595.6	1304.9	1083.4	891.5	706.4	515.6	371.4	239.6
-2.5°	2905.3	1935.1	1847.8	1634.3	1351.8	1112.0	908.9	718.5	527.5	382.3	247.7
-5°	2888.9	1970.6	1876.5	1665.1	1391.1	1135.0	921.7	726.7	536.7	391.0	254.5
-7.5°	2839.7	2010.6	1900.4	1688.0	1421.4	1151.5	929.8	731.1	543.4	397.4	259.8
-10°	2755.5	2050.6	1919.6	1696.6	1426.1	1160.1	933.5	731.7	547.4	401.4	263.5
-12.5°	2649.5	2087.2	1931.5	1695.1	1420.4	1161.8	936.8	730.1	548.6	402.9	265.5
-15°	2514.1	2133.5	1946.7	1684.6	1407.9	1158.3	933.9	724.4	545.2	400.5	265.6
-17.5°	2336.6	2176.6	1956.5	1671.0	1390.6	1149.4	924.5	713.7	538.7	394.0	263.3
-20°	2332.1	2195.3	1951.2	1645.0	1365.9	1133.3	908.4	697.7	529.2	385.1	258.8



REPORT NUMBER: P731629 (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°	2364.6	2187.7	1920.5	1610.4	1336.3	1110.5	887.1	676.8	516.6	374.0	252.7
-25°	2382.5	2173.0	1877.6	1573.2	1306.0	1081.6	862.2	654.8	500.9	360.5	245.1
-27.5°	2353.4	2129.3	1821.6	1523.5	1271.4	1047.1	833.5	639.1	486.6	344.8	235.8
-30°	2303.7	2046.7	1753.1	1465.8	1226.6	1007.4	799.5	620.1	470.8	332.0	225.0
-32.5°	2229.6	1957.9	1675.7	1410.6	1175.7	961.6	761.1	597.5	452.4	321.0	218.0
-35°	2112.7	1857.8	1592.7	1348.3	1119.2	914.7	724.4	571.1	431.5	307.2	212.0
-37.5°	1986.5	1742.9	1516.1	1280.7	1060.1	863.7	692.0	543.3	408.2	290.5	205.2
-40°	1854.3	1626.8	1417.4	1207.7	999.2	808.7	655.0	511.9	385.3	271.0	197.0
-42.5°	1715.8	1513.3	1315.4	1122.7	933.0	762.4	613.5	475.6	358.0	256.4	187.3
-45°	1586.2	1394.3	1207.7	1032.8	862.3	710.7	567.5	435.6	327.5	243.7	180.0
-47.5°	1449.8	1270.7	1099.3	937.1	797.8	653.3	515.7	398.4	294.8	229.2	177.2
-50°	1309.4	1144.9	989.0	850.2	722.7	589.4	461.6	358.1	275.3	212.1	173.7
-52.5°	1167.0	1018.4	885.8	764.0	641.7	519.7	411.5	316.6	254.3	202.7	169.5
-55°	1023.3	902.6	787.9	671.5	556.1	454.7	357.4	290.2	231.8	196.5	164.9
-57.5°	900.1	793.3	682.4	573.4	477.5	388.5	317.0	262.5	220.6	189.7	161.8
-60°	777.9	672.9	570.6	484.7	402.9	335.0	284.8	239.5	212.3	183.0	157.9
-62.5°	641.4	551.1	475.0	400.3	343.4	296.2	254.9	228.2	203.0	177.5	153.5
-65°	517.0	447.8	383.0	340.3	297.8	262.1	240.4	216.0	194.7	171.6	148.7
-67.5°	402.3	364.9	327.1	288.7	265.5	245.7	225.2	205.8	186.5	165.1	143.8
-70°	338.3	304.3	282.0	264.6	247.4	229.6	213.5	196.4	178.0	158.9	138.6
-72.5°	292.7	276.4	260.4	244.7	230.7	216.4	202.0	186.7	169.7	152.2	133.1
-75°	267.9	254.1	240.9	227.9	215.3	202.8	190.2	176.4	161.0	145.2	127.2
-77.5°	246.5	234.2	222.4	211.3	200.7	190.0	178.2	165.7	151.9	137.6	120.9
-80°	225.5	215.0	205.3	195.8	186.5	177.0	166.0	154.9	142.4	129.7	114.4
-82.5°	205.1	196.0	187.9	179.7	171.4	162.9	153.5	144.0	132.8	121.4	108.2
-85°	185.5	177.4	170.3	163.1	155.9	148.6	141.4	134.0	124.4	114.7	102.8
-87.5°	169.7	162.6	156.9	151.2	145.2	139.1	132.4	125.6	116.8	108.0	97.2
-90°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9



REPORT NUMBER: P731629 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	81.8	68.7	55.6	40.3	25.0	14.2	3.4
87.5°	3.7	3.8	3.8	3.7	3.6	3.7	3.4
85°	4.0	4.1	4.2	4.0	3.8	3.9	3.4
82.5°	4.3	4.5	4.6	4.3	4.0	4.2	3.4
80°	4.6	4.9	5.0	4.6	4.2	4.5	3.4
77.5°	5.3	5.4	5.4	4.9	4.5	4.8	3.4
75°	5.9	6.0	5.8	5.2	4.7	5.1	3.4
72.5°	6.6	6.7	6.4	5.5	5.0	5.3	3.4
70°	7.4	7.4	7.1	5.8	5.3	5.6	3.4
67.5°	8.8	8.1	7.7	6.5	5.6	5.9	3.4
65°	10.2	9.2	8.5	7.2	6.0	6.2	3.4
62.5°	11.8	10.7	9.2	7.9	6.3	6.5	3.4
60°	13.4	12.3	10.0	8.6	6.8	6.8	3.4
57.5°	15.9	13.9	11.5	9.3	7.5	7.1	3.4
55°	18.6	15.5	13.0	10.0	8.3	7.4	3.4
52.5°	21.3	17.4	14.7	10.8	9.1	7.7	3.4
50°	24.0	19.9	16.3	11.5	9.9	8.0	3.4
47.5°	27.0	22.6	18.0	12.4	10.8	8.3	3.4
45°	31.3	25.3	19.7	13.7	11.7	8.6	3.4
42.5°	35.6	28.2	21.5	15.0	12.5	9.0	3.4
40°	40.3	31.1	23.5	16.7	13.4	9.3	3.4
37.5°	45.4	34.1	25.8	18.6	14.3	9.6	3.4
35°	50.7	37.8	28.1	20.5	15.3	9.9	3.4
32.5°	57.3	42.0	30.4	22.4	16.2	10.2	3.4
30°	66.7	46.2	32.7	24.3	17.1	10.5	3.4
27.5°	76.0	50.4	35.7	26.1	18.1	10.8	3.4
25°	85.1	54.5	38.6	28.0	19.0	11.1	3.4
22.5°	94.0	58.7	41.5	29.9	19.9	11.4	3.4
20°	102.6	63.0	44.4	31.7	20.9	11.7	3.4
17.5°	110.7	67.1	47.1	33.5	21.8	12.0	3.4
15°	118.0	71.0	49.8	35.2	22.6	12.3	3.4
12.5°	124.9	74.7	52.4	36.9	23.5	12.5	3.4
10°	131.1	78.2	54.9	38.5	24.3	12.8	3.4
7.5°	136.8	81.4	57.3	40.1	25.1	13.0	3.4
5°	141.8	84.4	59.5	41.6	25.9	13.2	3.4
2.5°	146.2	87.2	61.6	43.0	26.6	13.4	3.4
0°	149.9	89.7	63.6	44.3	27.3	13.6	3.4
-2.5°	154.7	93.5	66.4	46.3	28.5	14.2	3.4
-5°	158.8	97.0	69.1	48.1	29.7	14.7	3.4
-7.5°	162.1	100.2	71.6	49.9	30.8	15.2	3.4
-10°	164.7	103.1	73.9	51.5	31.8	15.7	3.4
-12.5°	166.4	105.7	76.0	53.1	32.8	16.2	3.4
-15°	167.4	108.0	78.0	54.4	33.7	16.6	3.4
-17.5°	167.5	110.0	79.7	55.7	34.5	17.0	3.4
-20°	166.9	111.6	81.2	56.8	35.3	17.4	3.4



REPORT NUMBER: P731629 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	165.6	112.9	82.5	57.8	35.9	17.8	3.4
-25°	163.4	114.1	83.6	58.6	36.5	18.1	3.4
-27.5°	160.4	115.0	84.5	59.3	37.1	18.4	3.4
-30°	156.5	115.6	85.2	59.8	37.5	18.6	3.4
-32.5°	151.7	115.8	86.0	60.2	37.9	18.8	3.4
-35°	150.0	115.8	86.6	60.4	38.1	19.0	3.4
-37.5°	149.5	115.7	87.0	60.5	38.3	19.2	3.4
-40°	148.6	115.9	87.2	60.4	38.4	19.3	3.4
-42.5°	147.3	115.8	87.2	60.2	38.5	19.3	3.4
-45°	145.5	115.5	87.1	60.2	38.4	19.4	3.4
-47.5°	143.1	114.9	86.8	59.9	38.2	19.4	3.4
-50°	141.5	114.0	86.2	59.7	38.0	19.3	3.4
-52.5°	139.7	112.8	85.3	59.5	37.7	19.3	3.4
-55°	137.5	111.2	84.3	59.1	37.3	19.2	3.4
-57.5°	134.9	109.2	83.0	58.6	36.8	19.0	3.4
-60°	132.1	107.0	81.5	57.9	36.2	18.8	3.4
-62.5°	129.0	104.5	80.2	57.0	35.7	18.6	3.4
-65°	125.6	101.7	78.8	56.0	35.0	18.4	3.4
-67.5°	121.9	99.0	77.1	54.9	34.3	18.1	3.4
-70°	117.9	96.2	75.3	53.6	33.6	17.8	3.4
-72.5°	113.7	93.1	73.3	52.4	32.7	17.4	3.4
-75°	109.2	89.8	71.0	51.0	31.8	17.0	3.4
-77.5°	104.4	86.2	68.8	49.5	30.8	16.6	3.4
-80°	99.4	82.9	66.5	47.8	29.7	16.2	3.4
-82.5°	95.2	79.5	63.9	46.1	28.6	15.7	3.4
-85°	90.9	76.1	61.3	44.3	27.5	15.2	3.4
-87.5°	86.4	72.4	58.5	42.3	26.3	14.7	3.4
-90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

