

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: P731725 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-57-80-3S-VHE**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731725 (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-57-80-3S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 3S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

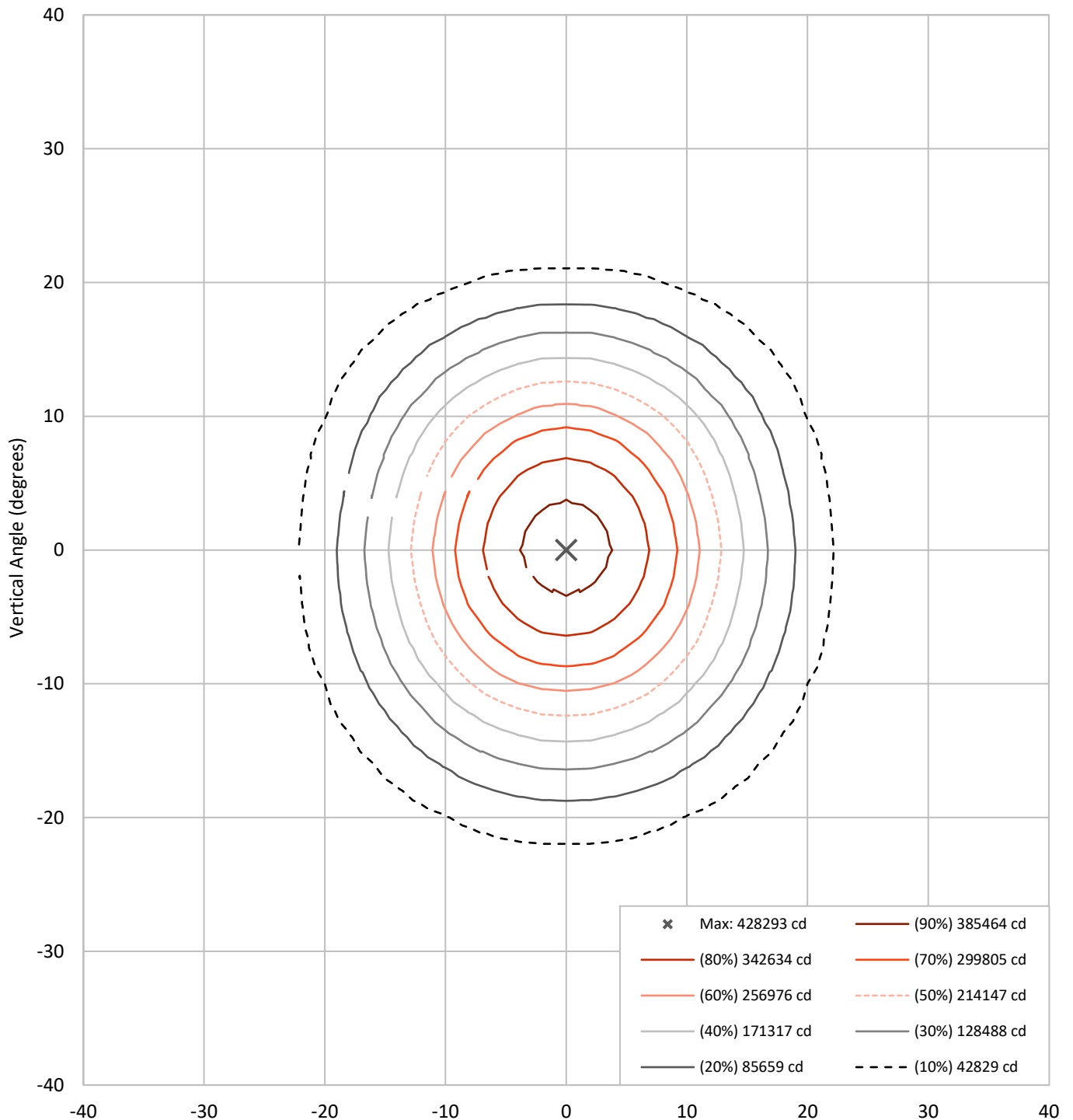
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	96224.7 lumens	Max Intensity:	428293 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	138.0 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:	46039.4 lumens	Field Lumens:	80672.6 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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CATALOG NUMBER: EPH-LS-08-0680N-57-80-3S-VHE

### Iso-Candela Plot





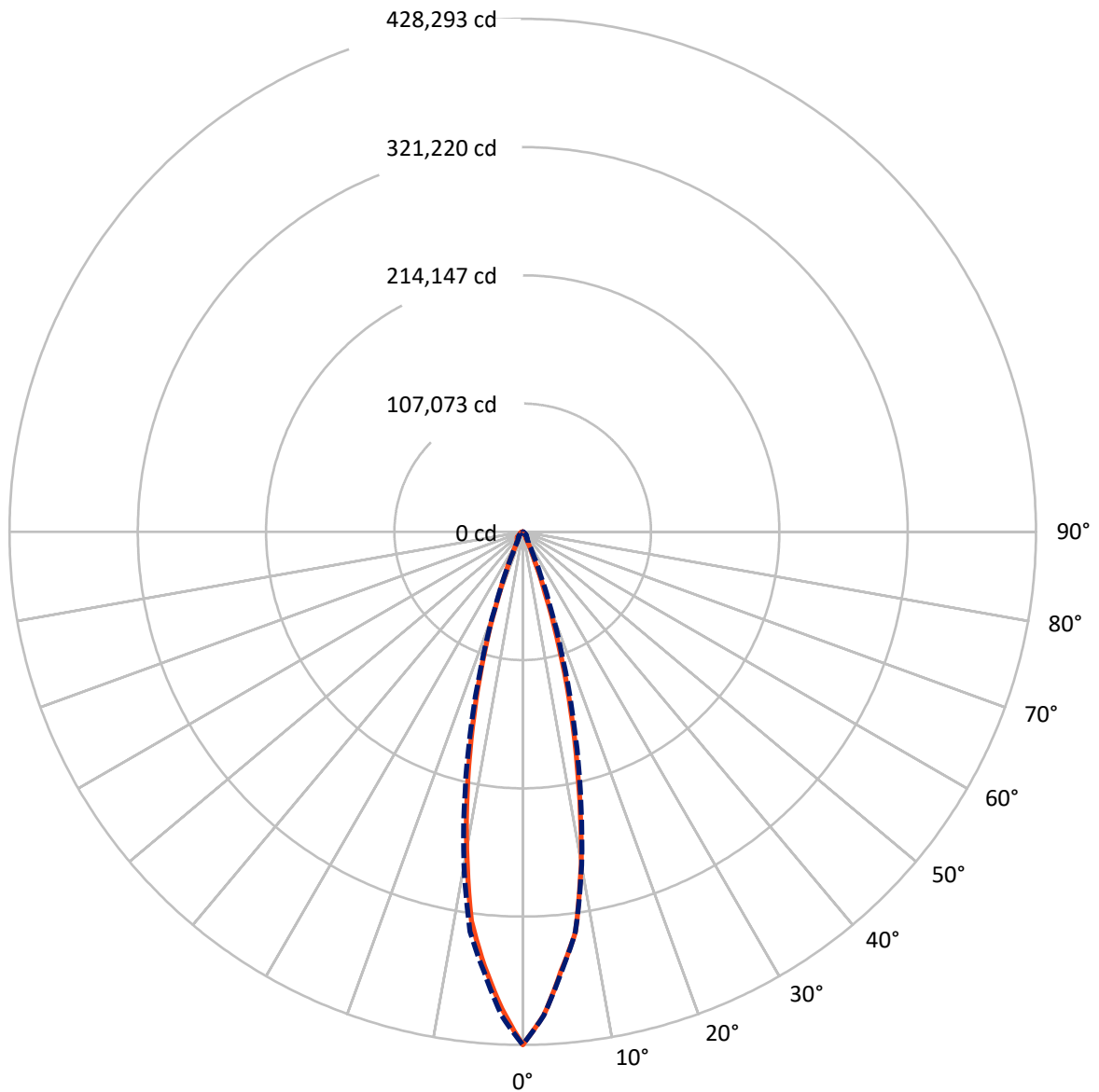
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### Lumen Table

90	0.2	0.8	1.5	2.3	2.7	2.3	1.5	0.8	0.2									
80	0.2	0.8	1.5	2.3	2.7	2.3	1.5	0.8	0.2									
70	0.3	0.2	0.3	0.7	0.9	0.7	0.6	0.6	0.6	0.6	0.7	0.9	0.7	0.3	0.2	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	1.4	3.2	6.7	12.4	21.2	30.2	34.2	34.2	30.2	21.2	12.4	6.7	3.2	1.4	0.9		
40		3.3	10.2	21.1	39.7	65.8	79.5	93.3	93.3	79.5	65.8	39.7	21.1	10.2	3.3			
30	2.2	5.6	17.2	37.7	84.4	108.5	234.4	512.7	512.7	234.4	108.5	84.4	37.7	17.2	5.6	2.2		
20		7.4	22.6	61.3	121.1	292.8	1763.7	4263.8	4263.8	1763.7	292.8	121.1	61.3	22.6	7.4			
10	3.2	8.9	26.2	78.0	146.7	649.9	4283.6	9756.8	9756.8	4283.6	649.9	146.7	78.0	26.2	8.9	3.2		
0		9.8	28.8	82.6	162.5	669.8	4309.6	9655.5	9655.5	4309.6	669.8	162.5	82.6	28.8	9.8			
-10	3.5	9.9	29.7	79.7	161.9	359.1	1839.0	4303.6	4303.6	1839.0	359.1	161.9	79.7	29.7	9.9	3.5		
-20		9.2	28.3	63.1	145.7	220.0	381.2	724.9	724.9	381.2	220.0	145.7	63.1	28.3	9.2			
-30	3.0	7.8	24.3	50.4	100.7	176.0	217.2	241.1	241.1	217.2	176.0	100.7	50.4	24.3	7.8	3.0		
-40		6.0	18.5	39.1	63.8	94.0	137.9	171.8	171.8	137.9	94.0	63.8	39.1	18.5	6.0			
-50	2.5	4.1	12.0	25.6	42.9	58.4	70.9	78.7	78.7	70.9	58.4	42.9	25.6	12.0	4.1	2.5		
-60		2.9	6.4	13.2	22.3	30.8	38.8	43.8	43.8	38.8	30.8	22.3	13.2	6.4	2.9			
-70	1.8	10.5	24.4	39.7	48.8	39.7	24.4	10.5	1.8							1.8		
-80		10.5	24.4	39.7	48.8	39.7	24.4	10.5	1.8									
-90	1.8	10.5	24.4	39.7	48.8	39.7	24.4	10.5	1.8									

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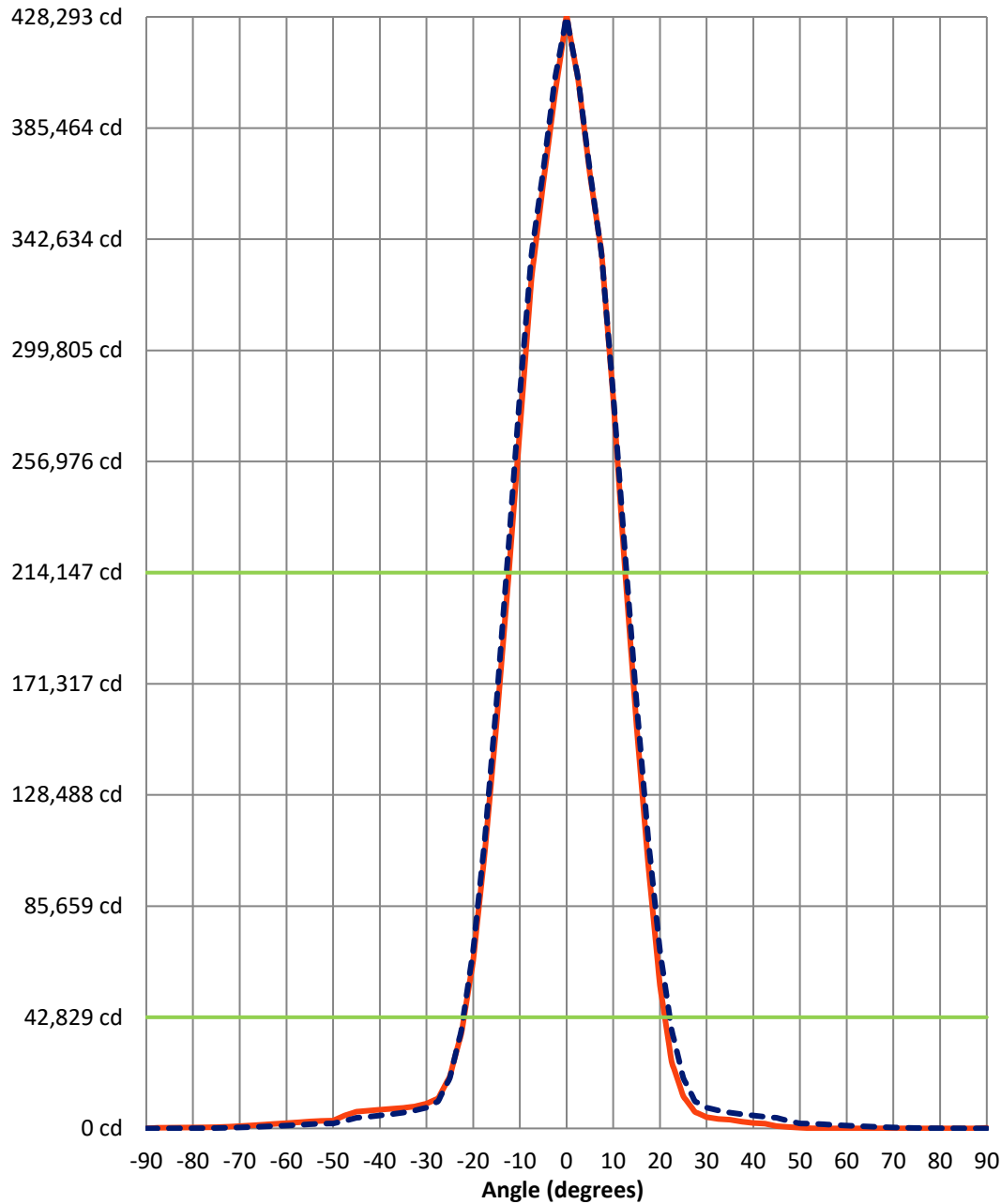
### Luminous Intensity Polar Plot



— 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: 46039.4  
 Efficiency: 47.8%

**Field:**  
 H Angle: 44.2°  
 V Angle: 43°  
 Lumens: 80672.6  
 Efficiency: 83.8%

**Spill:**  
 Lumens: 15552.2  
 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	14.3	25.2	40.7	56.2	69.4	82.6	92.3	102.0	110.1	118.1
87.5°	3.4	3.7	3.6	3.7	3.8	3.8	3.7	3.4	3.1	3.0	2.8
85°	3.4	4.0	3.8	4.0	4.2	4.2	4.0	3.9	3.9	3.6	3.2
82.5°	3.4	4.2	4.0	4.3	4.6	4.5	4.4	4.4	4.6	4.2	3.8
80°	3.4	4.5	4.2	4.6	5.0	4.9	4.7	4.9	5.0	4.7	4.3
77.5°	3.4	4.8	4.5	4.9	5.4	5.4	5.4	5.5	5.4	5.1	4.8
75°	3.4	5.1	4.7	5.2	5.8	6.1	6.0	6.0	5.9	5.8	5.4
72.5°	3.4	5.4	5.0	5.5	6.5	6.8	6.7	6.8	6.9	6.6	6.1
70°	3.4	5.7	5.3	5.8	7.1	7.5	7.5	8.0	7.9	7.5	7.7
67.5°	3.4	5.9	5.6	6.5	7.8	8.2	8.9	9.2	9.0	9.5	9.6
65°	3.4	6.2	6.0	7.2	8.5	9.3	10.3	10.5	11.5	11.7	11.7
62.5°	3.4	6.5	6.4	7.9	9.3	10.8	11.9	12.7	14.0	14.1	14.1
60°	3.4	6.8	6.8	8.6	10.1	12.4	13.6	15.4	16.7	17.1	16.8
57.5°	3.4	7.2	7.5	9.3	11.6	14.0	16.1	18.2	20.4	20.7	22.7
55°	3.4	7.5	8.3	10.1	13.2	15.7	18.8	21.2	24.5	25.8	30.8
52.5°	3.4	7.8	9.2	10.8	14.8	17.6	21.5	25.4	29.0	35.6	39.5
50°	3.4	8.1	10.0	11.6	16.5	20.1	24.3	30.0	35.4	46.2	55.6
47.5°	3.4	8.4	10.9	12.5	18.2	22.8	27.3	34.7	46.2	57.7	74.9
45°	3.4	8.7	11.7	13.8	19.9	25.6	31.6	39.6	57.4	77.4	96.2
42.5°	3.4	9.0	12.6	15.2	21.7	28.4	36.0	47.8	69.2	98.7	128.9
40°	3.4	9.4	13.5	16.9	23.7	31.4	40.7	58.4	84.0	121.3	165.8
37.5°	3.4	9.7	14.5	18.7	26.1	34.4	45.9	69.2	104.7	148.3	205.3
35°	3.4	10.0	15.4	20.7	28.4	38.2	51.2	80.2	126.4	183.1	249.5
32.5°	3.4	10.3	16.3	22.6	30.7	42.4	57.8	91.7	148.8	218.0	293.4
30°	3.4	10.7	17.3	24.5	33.0	46.7	67.4	105.0	171.8	253.1	334.4
27.5°	3.4	11.0	18.2	26.4	36.0	50.9	76.7	122.5	195.2	288.0	372.5
25°	3.4	11.3	19.2	28.2	39.0	55.0	85.9	139.1	218.9	320.8	408.0
22.5°	3.4	11.6	20.1	30.1	41.9	59.3	94.9	154.6	240.5	343.0	446.6
20°	3.4	11.9	21.0	31.9	44.8	63.6	103.6	169.0	260.1	363.6	477.9
17.5°	3.4	12.2	21.9	33.7	47.6	67.8	111.7	182.4	277.7	382.5	507.2
15°	3.4	12.4	22.8	35.5	50.3	71.7	119.2	194.5	293.2	399.7	534.9
12.5°	3.4	12.7	23.7	37.2	52.9	75.4	126.1	205.2	309.0	415.1	560.8
10°	3.4	12.9	24.5	38.9	55.4	79.0	132.4	214.9	325.2	438.1	589.1
7.5°	3.4	13.2	25.3	40.4	57.8	82.2	138.1	223.4	340.0	461.3	624.5
5°	3.4	13.4	26.1	41.9	60.1	85.3	143.2	230.8	353.4	483.0	657.3
2.5°	3.4	13.6	26.8	43.4	62.2	88.1	147.6	236.9	365.1	502.9	687.0
0°	3.4	13.8	27.5	44.7	64.2	90.6	151.3	241.9	374.9	520.5	713.2
-2.5°	3.4	14.4	28.7	46.7	67.1	94.4	156.2	250.1	385.9	532.5	725.4
-5°	3.4	14.9	29.9	48.6	69.8	97.9	160.3	257.0	394.7	541.9	733.7
-7.5°	3.4	15.4	31.0	50.3	72.3	101.2	163.7	262.3	401.2	548.6	738.1
-10°	3.4	15.9	32.1	52.0	74.6	104.1	166.2	266.0	405.2	552.7	738.7
-12.5°	3.4	16.4	33.1	53.5	76.8	106.8	168.0	268.0	406.7	553.9	737.1
-15°	3.4	16.8	34.0	54.9	78.8	109.1	169.0	268.1	404.3	550.4	731.4
-17.5°	3.4	17.2	34.8	56.2	80.5	111.1	169.1	265.8	397.7	543.9	720.6
-20°	3.4	17.6	35.6	57.3	82.1	112.7	168.5	261.2	388.8	534.3	704.4



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 CATALOG NUMBER: EPH-LS-08-0680N-57-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.4	18.0	36.3	58.3	83.4	114.0	167.2	255.1	377.5	521.6	683.3
-25°	3.4	18.3	36.9	59.2	84.5	115.2	165.0	247.4	363.9	505.6	661.1
-27.5°	3.4	18.6	37.4	59.9	85.3	116.1	161.9	238.1	348.0	491.2	645.3
-30°	3.4	18.8	37.9	60.4	86.0	116.7	158.0	227.2	335.1	475.3	626.1
-32.5°	3.4	19.0	38.2	60.8	86.9	117.0	153.2	220.1	324.1	456.8	603.2
-35°	3.4	19.2	38.5	61.0	87.5	116.9	151.5	214.0	310.1	435.7	576.7
-37.5°	3.4	19.4	38.7	61.1	87.9	116.8	151.0	207.2	293.3	412.1	548.5
-40°	3.4	19.5	38.8	61.0	88.0	117.0	150.1	198.9	273.6	389.0	516.8
-42.5°	3.4	19.6	38.9	60.9	88.1	117.0	148.7	189.2	258.9	361.4	480.2
-45°	3.4	19.6	38.8	60.8	88.0	116.6	146.9	181.8	246.1	330.7	439.7
-47.5°	3.4	19.6	38.6	60.5	87.6	116.0	144.5	178.9	231.4	297.6	402.2
-50°	3.4	19.5	38.4	60.4	87.0	115.1	142.8	175.4	214.2	277.9	361.6
-52.5°	3.4	19.5	38.1	60.1	86.2	113.9	141.0	171.1	204.7	256.7	319.6
-55°	3.4	19.4	37.7	59.7	85.1	112.2	138.8	166.5	198.4	234.1	293.0
-57.5°	3.4	19.2	37.2	59.2	83.7	110.2	136.3	163.3	191.6	222.7	265.1
-60°	3.4	19.0	36.6	58.4	82.2	107.9	133.3	159.4	184.7	214.3	241.9
-62.5°	3.4	18.8	36.0	57.6	81.0	105.4	130.2	154.9	179.2	205.0	230.4
-65°	3.4	18.5	35.4	56.6	79.5	102.6	126.7	150.1	173.2	196.6	218.1
-67.5°	3.4	18.2	34.7	55.4	77.8	99.8	123.0	145.2	166.7	188.3	207.8
-70°	3.4	17.9	33.9	54.2	76.0	97.0	118.9	140.0	160.4	179.8	198.3
-72.5°	3.4	17.6	33.0	52.9	73.9	94.0	114.7	134.4	153.7	171.3	188.5
-75°	3.4	17.2	32.1	51.5	71.7	90.6	110.3	128.4	146.7	162.5	178.1
-77.5°	3.4	16.8	31.1	50.0	69.5	87.1	105.5	122.1	139.0	153.4	167.3
-80°	3.4	16.3	30.0	48.3	67.1	83.7	100.4	115.5	131.0	143.8	156.4
-82.5°	3.4	15.9	28.9	46.6	64.6	80.3	96.1	109.2	122.6	134.1	145.4
-85°	3.4	15.4	27.7	44.7	61.9	76.8	91.8	103.8	115.8	125.6	135.2
-87.5°	3.4	14.8	26.5	42.8	59.1	73.2	87.3	98.1	109.0	117.9	126.7
-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°	124.4	130.7	136.5	142.2	147.4	152.5	159.4	166.3	171.5	176.6	181.8
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°	3.9	4.0	3.8	3.4	3.3	3.3	3.4	3.4	3.4	3.4	3.1
80°	4.4	4.6	4.2	3.8	3.9	4.1	3.9	3.5	3.4	3.5	3.6
77.5°	4.8	4.7	4.5	4.4	4.6	4.8	4.7	4.7	4.7	4.5	4.5
75°	5.1	4.8	4.9	4.8	4.8	5.3	5.7	5.7	5.5	5.3	5.4
72.5°	6.0	6.0	5.8	5.2	5.2	5.7	5.7	5.7	7.1	9.5	11.4
70°	7.5	7.4	7.0	6.6	6.3	6.7	8.7	11.9	15.4	18.6	21.7
67.5°	9.1	8.9	8.4	8.3	9.5	11.5	13.9	22.0	30.4	33.3	33.9
65°	10.8	10.5	10.6	11.9	13.6	19.3	26.7	36.4	44.5	44.0	40.6
62.5°	12.7	14.2	14.3	17.1	22.7	29.7	38.3	46.6	53.8	50.3	41.9
60°	18.1	19.2	21.8	27.0	32.9	39.8	48.7	51.4	53.2	51.8	40.7
57.5°	25.0	28.0	33.4	38.3	45.3	48.4	49.1	48.6	51.7	49.6	38.4
55°	35.0	40.1	47.4	52.4	56.5	50.5	49.9	53.0	52.6	48.2	37.2
52.5°	50.0	55.4	65.5	69.2	66.0	61.3	59.6	62.5	60.2	54.2	47.0
50°	66.3	79.2	85.9	88.9	83.1	82.4	76.4	80.1	83.4	80.5	90.6
47.5°	91.1	106.7	111.6	117.0	114.1	124.7	119.3	139.0	140.4	198.0	215.3
45°	121.1	142.0	147.7	161.5	176.8	195.1	226.8	235.1	330.0	387.7	456.0
42.5°	157.1	183.4	207.0	214.9	283.1	320.1	367.5	455.8	544.0	616.6	667.4
40°	203.6	230.3	280.3	340.0	412.5	475.3	566.1	668.2	752.3	808.0	834.2
37.5°	254.7	307.0	372.5	469.1	557.2	637.1	753.1	855.3	929.9	981.3	988.0
35°	309.6	383.8	491.2	589.1	680.1	788.2	903.4	1020.9	1082.0	1104.2	1199.0
32.5°	373.6	458.8	585.8	692.2	794.6	917.3	1039.7	1141.2	1195.2	1258.0	1578.6
30°	434.1	537.3	663.8	776.9	903.8	1043.5	1160.5	1256.2	1293.6	1623.0	2141.7
27.5°	482.4	605.5	732.5	868.9	1014.6	1174.3	1292.3	1354.4	1568.2	2055.7	2805.6
25°	527.5	659.9	801.9	972.1	1137.9	1296.2	1416.3	1456.0	1900.4	2727.2	3286.1
22.5°	571.6	713.0	878.4	1081.4	1251.1	1398.9	1499.3	1739.9	2376.8	3423.8	3714.0
20°	615.6	775.8	961.6	1164.0	1351.2	1489.2	1566.3	2039.4	2955.3	3691.6	4018.0
17.5°	658.1	839.0	1037.9	1233.5	1422.2	1562.1	1661.8	2292.0	3413.5	3931.8	4253.2
15°	699.5	893.0	1096.7	1298.8	1491.3	1625.9	1896.6	2662.5	3698.1	4222.3	4561.8
12.5°	739.2	939.1	1140.1	1355.4	1558.1	1688.0	2140.1	3111.7	3995.0	4508.6	4875.5
10°	776.6	977.9	1177.9	1407.0	1620.2	1742.0	2368.7	3531.3	4266.8	4712.4	5044.9
7.5°	814.3	1012.9	1212.0	1453.7	1678.7	1791.2	2562.0	3760.9	4373.5	4846.9	5164.5
5°	847.6	1045.2	1252.4	1511.3	1735.5	1836.5	2725.2	3915.4	4407.3	4914.2	5250.5
2.5°	876.1	1072.1	1287.7	1564.9	1786.6	1877.5	2836.4	4033.1	4448.1	4962.0	5357.4
0°	900.1	1093.8	1317.4	1610.9	1829.9	1914.8	2910.0	4096.7	4473.9	4983.0	5476.0
-2.5°	917.6	1122.7	1364.8	1650.0	1865.5	1953.7	2933.2	4123.9	4511.5	5098.7	5742.3
-5°	930.5	1145.9	1404.5	1681.0	1894.5	1989.5	2916.6	4098.5	4556.3	5205.5	5911.5
-7.5°	938.6	1162.6	1435.1	1704.3	1918.7	2029.9	2866.9	4069.3	4696.8	5339.5	5996.6
-10°	942.4	1171.2	1439.8	1713.0	1938.0	2070.3	2781.9	3970.6	4798.3	5390.7	6003.6
-12.5°	945.7	1173.0	1434.1	1711.4	1950.1	2107.3	2675.0	3851.9	4891.8	5409.9	5960.1
-15°	942.8	1169.3	1421.4	1700.8	1965.4	2154.0	2538.2	3631.9	4933.6	5389.7	5878.4
-17.5°	933.3	1160.4	1403.9	1687.1	1975.2	2197.6	2359.0	3292.8	4709.3	5327.5	5816.2
-20°	917.1	1144.2	1378.9	1660.8	1969.9	2216.4	2354.5	3044.6	4239.4	5205.3	5723.9



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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°	895.7	1121.1	1349.1	1625.8	1938.9	2208.6	2387.3	2771.2	3706.8	5026.2	5584.6
-25°	870.5	1091.9	1318.5	1588.2	1895.6	2193.8	2405.3	2519.2	3266.7	4419.3	5363.4
-27.5°	841.5	1057.2	1283.6	1538.1	1839.0	2149.7	2376.0	2526.2	2908.9	3725.2	5027.3
-30°	807.2	1017.0	1238.4	1479.9	1769.9	2066.4	2325.8	2517.1	2628.9	3251.7	4298.5
-32.5°	768.4	970.8	1187.0	1424.1	1691.8	1976.7	2251.0	2457.8	2611.1	2815.0	3612.4
-35°	731.4	923.5	1130.0	1361.2	1608.0	1875.7	2133.0	2377.1	2569.4	2700.7	3024.8
-37.5°	698.7	872.0	1070.3	1293.0	1530.7	1759.7	2005.6	2257.2	2477.5	2659.2	2773.9
-40°	661.3	816.5	1008.8	1219.3	1431.0	1642.5	1872.2	2112.5	2355.1	2554.6	2729.5
-42.5°	619.4	769.7	941.9	1133.5	1328.0	1527.8	1732.3	1959.9	2188.6	2416.0	2600.4
-45°	572.9	717.5	870.5	1042.7	1219.2	1407.6	1601.4	1798.2	2014.5	2229.1	2430.9
-47.5°	520.6	659.5	805.4	946.0	1109.9	1282.8	1463.7	1649.3	1834.5	2031.5	2226.4
-50°	466.0	595.0	729.7	858.4	998.5	1155.8	1322.0	1494.7	1669.4	1834.7	2006.2
-52.5°	415.5	524.7	647.9	771.3	894.3	1028.1	1178.2	1334.2	1495.9	1656.9	1801.9
-55°	360.8	459.1	561.5	677.9	795.5	911.3	1033.1	1174.3	1311.6	1459.7	1602.2
-57.5°	320.1	392.3	482.0	578.9	688.9	800.9	908.8	1015.1	1134.8	1258.6	1384.3
-60°	287.5	338.2	406.8	489.4	576.0	679.4	785.4	883.5	973.9	1066.1	1179.9
-62.5°	257.4	299.0	346.7	404.2	479.5	556.3	647.6	741.2	829.0	913.3	998.1
-65°	242.7	264.6	300.7	343.5	386.7	452.1	522.0	593.6	674.2	751.6	830.4
-67.5°	227.4	248.1	268.0	291.4	330.3	368.4	406.2	469.3	532.4	589.2	646.6
-70°	215.5	231.8	249.7	267.2	284.7	307.2	341.5	376.8	411.0	448.7	496.8
-72.5°	203.9	218.4	232.9	247.0	262.9	279.1	295.5	312.7	337.7	366.9	393.2
-75°	192.0	204.6	217.4	230.1	243.2	256.6	270.5	285.7	301.3	316.9	330.9
-77.5°	179.9	191.8	202.6	213.3	224.6	236.5	248.9	261.4	274.1	287.0	297.9
-80°	167.6	178.7	188.3	197.6	207.2	217.1	227.7	238.5	249.2	260.0	269.5
-82.5°	154.9	164.5	173.0	181.4	189.7	197.9	207.1	216.5	225.8	235.1	243.1
-85°	142.7	150.0	157.3	164.6	171.9	179.1	187.3	195.5	203.3	211.1	218.0
-87.5°	133.6	140.4	146.5	152.6	158.4	164.2	171.3	178.4	184.5	190.6	196.2
-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°	186.9	190.4	193.8	196.7	199.5	203.5	207.5	213.3	219.0	225.9	232.8
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	4.5
80°	3.7	3.8	4.0	4.1	4.1	3.9	3.5	3.4	3.4	4.0	4.6
77.5°	4.7	4.7	4.6	4.4	4.0	3.7	3.4	3.4	3.4	3.5	3.5
75°	5.6	5.7	6.1	6.5	7.0	7.1	6.6	6.7	7.0	6.9	6.6
72.5°	12.6	13.0	13.0	14.5	15.9	16.4	16.8	17.9	19.2	21.0	23.0
70°	24.6	27.2	28.2	28.3	27.2	26.5	25.9	25.7	26.2	27.4	28.9
67.5°	35.6	36.6	36.1	35.6	33.5	30.9	28.0	26.5	27.1	28.5	30.3
65°	40.1	37.0	34.7	33.9	31.9	28.7	24.3	21.3	20.7	20.2	20.1
62.5°	36.1	30.4	27.8	26.2	23.4	20.8	16.7	13.6	12.4	11.7	11.5
60°	31.5	24.5	20.1	18.1	15.1	11.7	9.7	7.4	6.7	6.2	6.3
57.5°	27.4	20.2	15.2	14.3	11.6	9.1	7.3	5.4	4.9	4.6	4.8
55°	28.2	24.6	20.5	18.5	15.4	13.9	12.3	11.1	10.2	10.4	11.0
52.5°	39.8	42.8	37.6	36.3	45.2	45.3	37.3	49.5	57.0	62.6	64.2
50°	102.7	102.0	135.5	129.9	160.8	186.1	187.1	202.5	231.9	251.9	262.8
47.5°	272.7	303.3	342.4	383.4	415.5	455.5	496.0	526.3	533.8	534.5	539.8
45°	513.3	557.0	615.8	658.9	719.6	757.0	788.1	816.2	881.2	941.0	1010.7
42.5°	716.8	764.5	825.5	913.1	977.0	1147.7	1408.9	1473.1	1482.3	1535.4	1612.7
40°	877.4	940.0	1075.4	1267.4	1676.4	2043.3	2109.4	2164.6	2188.8	2159.3	2211.9
37.5°	1071.9	1218.6	1523.4	2048.3	2242.3	2342.2	2412.4	2454.7	2505.9	2553.3	2579.0
35°	1394.8	1803.6	2070.7	2351.2	2478.0	2528.6	2580.2	2632.2	2672.4	2724.9	2766.8
32.5°	2057.5	2512.7	2539.5	2608.8	2674.9	2740.7	2788.8	2838.4	2881.4	2949.3	3091.9
30°	2725.1	2824.3	2848.6	2854.9	2915.2	2994.0	3035.9	3135.9	3270.8	3425.6	3755.1
27.5°	3080.5	3148.7	3163.0	3169.8	3197.9	3291.2	3464.2	3600.7	3924.6	4317.9	5164.4
25°	3513.3	3561.8	3613.3	3611.1	3653.8	3819.1	4157.4	4445.5	5539.9	6564.1	8770.5
22.5°	3926.1	4073.0	4146.2	4244.3	4389.2	4690.0	5283.4	6950.5	9738.0	13295.0	17723.3
20°	4213.1	4410.7	4607.6	4881.3	5231.4	5855.7	7709.8	12698.4	18656.0	27300.6	34551.2
17.5°	4502.5	4725.7	5074.0	5496.2	6084.3	8180.6	13616.3	22086.7	34321.0	49668.1	63133.6
15°	4879.9	5144.8	5611.2	6213.8	7857.3	12332.0	21399.6	36812.4	55411.0	76984.6	99615.1
12.5°	5136.9	5502.0	6056.4	6834.7	9532.3	17912.9	32512.7	53641.9	79239.8	106423.1	142496.6
10°	5326.9	5763.4	6516.4	8130.2	13021.5	24073.1	41617.2	67986.3	103080.3	144509.6	185752.3
7.5°	5486.4	6074.3	7019.6	9053.1	16032.0	29965.3	52328.7	84379.2	125901.2	175821.5	223783.3
5°	5629.7	6409.1	7503.8	10047.9	18729.4	34231.5	59452.1	96621.6	144704.5	199225.8	252178.9
2.5°	5819.3	6722.5	7817.9	10321.7	19809.2	36595.3	65096.5	106507.1	158129.9	215482.6	273095.7
0°	6082.6	6926.4	8009.9	10496.8	19473.3	38076.4	68555.7	111468.3	164013.3	222310.6	282737.2
-2.5°	6289.6	7043.9	8121.8	10355.7	19309.1	37379.8	66994.5	108576.4	158253.3	214585.4	274861.6
-5°	6423.4	7128.1	8170.8	10408.4	18894.8	34717.6	62383.4	100999.2	146523.6	197374.2	253111.6
-7.5°	6501.6	7159.0	8119.9	10076.6	17012.9	31090.7	54175.8	87032.6	127871.7	174926.0	220989.2
-10°	6548.5	7139.0	8013.6	9607.0	14310.2	25266.8	42770.5	70617.5	106002.3	143918.1	181596.1
-12.5°	6566.1	7096.8	7863.7	8934.6	11473.5	19780.8	34047.0	53810.0	80076.4	111178.9	144379.4
-15°	6531.6	7035.5	7718.8	8646.1	10335.1	14828.6	23757.4	37198.5	56776.6	80523.4	104582.2
-17.5°	6403.4	6972.3	7504.2	8216.1	9210.3	11329.4	16763.7	25391.1	37330.3	53026.6	66907.2
-20°	6233.4	6852.9	7308.3	7937.5	8718.2	9688.1	11430.8	16696.1	23390.7	32477.9	41537.4



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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°	6082.0	6648.9	7221.5	7653.4	8264.7	8902.3	9689.3	11195.5	14559.5	19096.3	24839.4
-25°	5942.5	6461.3	7048.9	7516.0	7860.9	8311.5	8804.6	9332.2	10474.9	11546.3	14316.9
-27.5°	5745.9	6283.4	6793.0	7291.5	7623.9	7828.4	8164.4	8492.3	8970.8	9396.4	10210.1
-30°	5517.2	6043.1	6528.0	6980.9	7321.4	7536.5	7703.1	7928.6	8181.9	8439.5	8789.1
-32.5°	4702.3	5760.8	6212.2	6621.1	6972.3	7225.3	7401.7	7549.8	7695.9	7860.9	8045.1
-35°	3809.5	4855.0	5873.7	6192.5	6524.4	6859.2	7120.8	7260.6	7387.8	7503.3	7616.0
-37.5°	3097.4	3835.0	4749.2	5618.1	6021.4	6359.5	6673.9	6918.1	7096.4	7204.7	7306.1
-40°	2818.6	3005.5	3708.6	4424.1	5112.2	5736.9	6056.6	6417.6	6710.8	6869.9	6980.3
-42.5°	2751.9	2837.8	2903.4	3356.7	3904.1	4430.9	5013.8	5592.4	6046.5	6349.2	6574.3
-45°	2605.9	2729.5	2827.4	2867.8	2892.6	3276.7	3728.1	4170.0	4679.8	5206.5	5684.8
-47.5°	2399.2	2559.8	2670.3	2756.9	2808.6	2824.9	2856.7	2955.8	3326.0	3715.3	4085.9
-50°	2168.5	2315.6	2448.2	2568.6	2640.2	2698.4	2753.9	2807.2	2852.4	2909.3	2960.7
-52.5°	1936.1	2071.0	2190.2	2295.9	2390.8	2482.5	2570.6	2636.5	2700.9	2769.9	2826.1
-55°	1729.2	1838.6	1938.4	2031.2	2116.9	2194.3	2274.0	2359.1	2447.2	2533.3	2600.2
-57.5°	1508.0	1612.6	1707.2	1785.8	1854.8	1912.5	1985.7	2065.4	2148.3	2225.0	2283.3
-60°	1284.9	1377.4	1463.9	1540.1	1605.5	1659.3	1726.9	1794.4	1868.3	1934.0	1985.8
-62.5°	1073.0	1151.0	1224.5	1291.1	1350.6	1405.1	1465.1	1525.4	1594.9	1656.0	1705.6
-65°	896.9	957.4	1007.7	1054.9	1091.7	1138.9	1197.0	1252.5	1313.0	1366.0	1410.1
-67.5°	706.2	762.0	808.1	849.3	881.6	915.4	958.4	1002.7	1049.5	1091.6	1128.6
-70°	539.6	577.1	607.0	637.8	671.0	703.2	737.5	775.4	814.8	849.5	880.0
-72.5°	416.3	434.8	452.3	477.4	499.6	522.0	543.7	570.9	600.1	626.5	650.3
-75°	343.9	355.4	368.7	380.6	390.9	402.9	414.9	432.5	451.7	469.9	486.9
-77.5°	308.5	316.8	323.6	329.0	333.9	341.1	348.9	362.0	376.1	391.4	406.7
-80°	278.5	284.9	290.5	295.4	299.8	305.8	311.9	323.5	335.6	348.5	361.4
-82.5°	250.8	255.8	260.4	264.8	269.0	274.2	279.2	289.3	299.7	310.5	321.2
-85°	224.8	229.0	233.0	236.6	240.1	244.5	248.8	257.4	266.2	275.3	284.4
-87.5°	201.8	205.7	209.6	212.9	216.1	219.9	223.6	231.2	238.9	246.5	254.1
-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):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	233.4	233.9	234.5	235.0	234.5	233.9	233.4	232.8	225.9	219.0	213.3
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°	4.0	3.4	4.0	4.6	4.0	3.4	4.0	4.5	3.9	3.4	3.4
80°	4.0	3.4	4.0	4.6	4.0	3.4	4.0	4.6	4.0	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°	5.7	4.7	4.0	3.4	4.0	4.7	5.7	6.6	6.9	7.0	6.7
72.5°	23.6	23.6	24.0	24.1	24.0	23.6	23.6	23.0	21.0	19.2	17.9
70°	29.9	30.7	30.9	31.0	30.9	30.7	29.9	28.9	27.4	26.2	25.7
67.5°	30.5	29.9	29.3	28.7	29.3	29.9	30.5	30.3	28.5	27.1	26.5
65°	19.1	17.8	15.8	13.8	15.8	17.8	19.1	20.1	20.2	20.7	21.3
62.5°	11.1	10.6	10.4	10.3	10.4	10.6	11.1	11.5	11.7	12.4	13.6
60°	6.5	6.9	6.9	6.9	6.9	6.9	6.5	6.3	6.2	6.7	7.4
57.5°	5.0	5.6	6.2	6.9	6.2	5.6	5.0	4.8	4.6	4.9	5.4
55°	11.7	13.0	13.7	13.8	13.7	13.0	11.7	11.0	10.4	10.2	11.1
52.5°	61.9	58.8	56.1	53.9	56.1	58.8	61.9	64.2	62.6	57.0	49.5
50°	267.7	274.6	277.8	277.5	277.8	274.6	267.7	262.8	251.9	231.9	202.5
47.5°	551.2	555.1	552.0	543.5	552.0	555.1	551.2	539.8	534.5	533.8	526.3
45°	1096.0	1048.4	964.1	889.7	964.1	1048.4	1096.0	1010.7	941.0	881.2	816.2
42.5°	1715.5	1772.4	1815.0	1834.5	1815.0	1772.4	1715.5	1612.7	1535.4	1482.3	1473.1
40°	2152.8	2092.1	2079.8	2089.0	2079.8	2092.1	2152.8	2211.9	2159.3	2188.8	2164.6
37.5°	2585.6	2640.8	2681.7	2615.3	2681.7	2640.8	2585.6	2579.0	2553.3	2505.9	2454.7
35°	2864.3	3060.5	3290.8	3360.6	3290.8	3060.5	2864.3	2766.8	2724.9	2672.4	2632.2
32.5°	3330.6	3537.7	3627.5	3649.5	3627.5	3537.7	3330.6	3091.9	2949.3	2881.4	2838.4
30°	4072.5	4279.4	4316.6	4346.6	4316.6	4279.4	4072.5	3755.1	3425.6	3270.8	3135.9
27.5°	5726.2	6189.0	6298.8	6376.1	6298.8	6189.0	5726.2	5164.4	4317.9	3924.6	3600.7
25°	10512.4	11716.4	12502.7	12426.5	12502.7	11716.4	10512.4	8770.5	6564.1	5539.9	4445.5
22.5°	22160.2	24523.5	25784.6	25762.3	25784.6	24523.5	22160.2	17723.3	13295.0	9738.0	6950.5
20°	44881.0	51874.0	55659.1	55228.0	55659.1	51874.0	44881.0	34551.2	27300.6	18656.0	12698.4
17.5°	78258.1	91764.6	101200.7	101587.2	101200.7	91764.6	78258.1	63133.6	49668.1	34321.0	22086.7
15°	121010.3	141050.7	155198.0	155196.2	155198.0	141050.7	121010.3	99615.1	76984.6	55411.0	36812.4
12.5°	173042.3	196997.1	213183.8	215611.3	213183.8	196997.1	173042.3	142496.6	106423.1	79239.8	53641.9
10°	222979.2	250112.9	274583.6	281321.2	274583.6	250112.9	222979.2	185752.3	144509.6	103080.3	67986.3
7.5°	265246.9	307930.1	330220.5	337241.1	330220.5	307930.1	265246.9	223783.3	175821.5	125901.2	84379.2
5°	306735.1	343681.1	362395.8	367813.8	362395.8	343681.1	306735.1	252178.9	199225.8	144704.5	96621.6
2.5°	328559.3	362472.0	388775.8	404030.5	388775.8	362472.0	328559.3	273095.7	215482.6	158129.9	106507.1
0°	336770.4	368990.2	404266.1	428293.0	404266.1	368990.2	336770.4	282737.2	222310.6	164013.3	111468.3
-2.5°	328557.4	359733.9	385730.1	398386.5	385730.1	359733.9	328557.4	274861.6	214585.4	158253.3	108576.4
-5°	303661.2	340331.8	359259.0	364050.7	359259.0	340331.8	303661.2	253111.6	197374.2	146523.6	100999.2
-7.5°	263898.4	299166.2	322372.2	327599.1	322372.2	299166.2	263898.4	220989.2	174926.0	127871.7	87032.6
-10°	219630.8	249755.4	265410.9	269282.2	265410.9	249755.4	219630.8	181596.1	143918.1	106002.3	70617.5
-12.5°	170658.0	192750.0	208730.9	210900.0	208730.9	192750.0	170658.0	144379.4	111178.9	80076.4	53810.0
-15°	127028.5	141639.1	154522.9	156003.4	154522.9	141639.1	127028.5	104582.2	80523.4	56776.6	37198.5
-17.5°	85102.5	97198.8	104407.7	106487.6	104407.7	97198.8	85102.5	66907.2	53026.6	37330.3	25391.1
-20°	50990.5	59646.3	64450.4	64631.0	64450.4	59646.3	50990.5	41537.4	32477.9	23390.7	16696.1



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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°	29582.2	34398.4	36940.2	36890.9	36940.2	34398.4	29582.2	24839.4	19096.3	14559.5	11195.5
-25°	17060.6	19169.3	20011.0	20040.9	20011.0	19169.3	17060.6	14316.9	11546.3	10474.9	9332.2
-27.5°	10863.2	11347.3	11541.2	11572.3	11541.2	11347.3	10863.2	10210.1	9396.4	8970.8	8492.3
-30°	9107.9	9391.1	9521.3	9557.8	9521.3	9391.1	9107.9	8789.1	8439.5	8181.9	7928.6
-32.5°	8218.1	8374.2	8479.4	8464.0	8479.4	8374.2	8218.1	8045.1	7860.9	7695.9	7549.8
-35°	7726.2	7822.7	7881.8	7910.2	7881.8	7822.7	7726.2	7616.0	7503.3	7387.8	7260.6
-37.5°	7407.2	7493.5	7549.5	7566.2	7549.5	7493.5	7407.2	7306.1	7204.7	7096.4	6918.1
-40°	7075.2	7147.1	7193.1	7209.6	7193.1	7147.1	7075.2	6980.3	6869.9	6710.8	6417.6
-42.5°	6717.0	6794.2	6830.9	6831.3	6830.9	6794.2	6717.0	6574.3	6349.2	6046.5	5592.4
-45°	6077.0	6314.6	6433.6	6439.1	6433.6	6314.6	6077.0	5684.8	5206.5	4679.8	4170.0
-47.5°	4423.0	4657.9	4846.7	4986.4	4846.7	4657.9	4423.0	4085.9	3715.3	3326.0	2955.8
-50°	3005.6	3021.1	3022.1	3008.6	3022.1	3021.1	3005.6	2960.7	2909.3	2852.4	2807.2
-52.5°	2869.9	2886.0	2897.8	2904.3	2897.8	2886.0	2869.9	2826.1	2769.9	2700.9	2636.5
-55°	2649.6	2669.9	2678.2	2674.9	2678.2	2669.9	2649.6	2600.2	2533.3	2447.2	2359.1
-57.5°	2322.4	2335.8	2342.0	2340.1	2342.0	2335.8	2322.4	2283.3	2225.0	2148.3	2065.4
-60°	2017.6	2027.5	2033.2	2032.9	2033.2	2027.5	2017.6	1985.8	1934.0	1868.3	1794.4
-62.5°	1733.5	1742.3	1748.8	1749.7	1748.8	1742.3	1733.5	1705.6	1656.0	1594.9	1525.4
-65°	1432.3	1439.0	1443.3	1442.4	1443.3	1439.0	1432.3	1410.1	1366.0	1313.0	1252.5
-67.5°	1144.9	1149.6	1153.5	1153.4	1153.5	1149.6	1144.9	1128.6	1091.6	1049.5	1002.7
-70°	889.7	890.2	892.0	890.9	892.0	890.2	889.7	880.0	849.5	814.8	775.4
-72.5°	655.8	655.2	654.8	652.4	654.8	655.2	655.8	650.3	626.5	600.1	570.9
-75°	488.6	486.8	485.2	482.7	485.2	486.8	488.6	486.9	469.9	451.7	432.5
-77.5°	408.5	408.4	405.7	402.4	405.7	408.4	408.5	406.7	391.4	376.1	362.0
-80°	362.1	361.7	360.5	358.9	360.5	361.7	362.1	361.4	348.5	335.6	323.5
-82.5°	322.3	322.9	322.6	322.2	322.6	322.9	322.3	321.2	310.5	299.7	289.3
-85°	285.5	286.4	286.0	285.5	286.0	286.4	285.5	284.4	275.3	266.2	257.4
-87.5°	254.9	255.6	255.7	255.7	255.7	255.6	254.9	254.1	246.5	238.9	231.2
-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°	207.5	203.5	199.5	196.7	193.8	190.4	186.9	181.8	176.6	171.5	166.3
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°	3.5	3.9	4.1	4.1	4.0	3.8	3.7	3.6	3.5	3.4	3.5
77.5°	3.4	3.7	4.0	4.4	4.6	4.7	4.7	4.5	4.5	4.7	4.7
75°	6.6	7.1	7.0	6.5	6.1	5.7	5.6	5.4	5.3	5.5	5.7
72.5°	16.8	16.4	15.9	14.5	13.0	13.0	12.6	11.4	9.5	7.1	5.7
70°	25.9	26.5	27.2	28.3	28.2	27.2	24.6	21.7	18.6	15.4	11.9
67.5°	28.0	30.9	33.5	35.6	36.1	36.6	35.6	33.9	33.3	30.4	22.0
65°	24.3	28.7	31.9	33.9	34.7	37.0	40.1	40.6	44.0	44.5	36.4
62.5°	16.7	20.8	23.4	26.2	27.8	30.4	36.1	41.9	50.3	53.8	46.6
60°	9.7	11.7	15.1	18.1	20.1	24.5	31.5	40.7	51.8	53.2	51.4
57.5°	7.3	9.1	11.6	14.3	15.2	20.2	27.4	38.4	49.6	51.7	48.6
55°	12.3	13.9	15.4	18.5	20.5	24.6	28.2	37.2	48.2	52.6	53.0
52.5°	37.3	45.3	45.2	36.3	37.6	42.8	39.8	47.0	54.2	60.2	62.5
50°	187.1	186.1	160.8	129.9	135.5	102.0	102.7	90.6	80.5	83.4	80.1
47.5°	496.0	455.5	415.5	383.4	342.4	303.3	272.7	215.3	198.0	140.4	139.0
45°	788.1	757.0	719.6	658.9	615.8	557.0	513.3	456.0	387.7	330.0	235.1
42.5°	1408.9	1147.7	977.0	913.1	825.5	764.5	716.8	667.4	616.6	544.0	455.8
40°	2109.4	2043.3	1676.4	1267.4	1075.4	940.0	877.4	834.2	808.0	752.3	668.2
37.5°	2412.4	2342.2	2242.3	2048.3	1523.4	1218.6	1071.9	988.0	981.3	929.9	855.3
35°	2580.2	2528.6	2478.0	2351.2	2070.7	1803.6	1394.8	1199.0	1104.2	1082.0	1020.9
32.5°	2788.8	2740.7	2674.9	2608.8	2539.5	2512.7	2057.5	1578.6	1258.0	1195.2	1141.2
30°	3035.9	2994.0	2915.2	2854.9	2848.6	2824.3	2725.1	2141.7	1623.0	1293.6	1256.2
27.5°	3464.2	3291.2	3197.9	3169.8	3163.0	3148.7	3080.5	2805.6	2055.7	1568.2	1354.4
25°	4157.4	3819.1	3653.8	3611.1	3613.3	3561.8	3513.3	3286.1	2727.2	1900.4	1456.0
22.5°	5283.4	4690.0	4389.2	4244.3	4146.2	4073.0	3926.1	3714.0	3423.8	2376.8	1739.9
20°	7709.8	5855.7	5231.4	4881.3	4607.6	4410.7	4213.1	4018.0	3691.6	2955.3	2039.4
17.5°	13616.3	8180.6	6084.3	5496.2	5074.0	4725.7	4502.5	4253.2	3931.8	3413.5	2292.0
15°	21399.6	12332.0	7857.3	6213.8	5611.2	5144.8	4879.9	4561.8	4222.3	3698.1	2662.5
12.5°	32512.7	17912.9	9532.3	6834.7	6056.4	5502.0	5136.9	4875.5	4508.6	3995.0	3111.7
10°	41617.2	24073.1	13021.5	8130.2	6516.4	5763.4	5326.9	5044.9	4712.4	4266.8	3531.3
7.5°	52328.7	29965.3	16032.0	9053.1	7019.6	6074.3	5486.4	5164.5	4846.9	4373.5	3760.9
5°	59452.1	34231.5	18729.4	10047.9	7503.8	6409.1	5629.7	5250.5	4914.2	4407.3	3915.4
2.5°	65096.5	36595.3	19809.2	10321.7	7817.9	6722.5	5819.3	5357.4	4962.0	4448.1	4033.1
0°	68555.7	38076.4	19473.3	10496.8	8009.9	6926.4	6082.6	5476.0	4983.0	4473.9	4096.7
-2.5°	66994.5	37379.8	19309.1	10355.7	8121.8	7043.9	6289.6	5742.3	5098.7	4511.5	4123.9
-5°	62383.4	34717.6	18894.8	10408.4	8170.8	7128.1	6423.4	5911.5	5205.5	4556.3	4098.5
-7.5°	54175.8	31090.7	17012.9	10076.6	8119.9	7159.0	6501.6	5996.6	5339.5	4696.8	4069.3
-10°	42770.5	25266.8	14310.2	9607.0	8013.6	7139.0	6548.5	6003.6	5390.7	4798.3	3970.6
-12.5°	34047.0	19780.8	11473.5	8934.6	7863.7	7096.8	6566.1	5960.1	5409.9	4891.8	3851.9
-15°	23757.4	14828.6	10335.1	8646.1	7718.8	7035.5	6531.6	5878.4	5389.7	4933.6	3631.9
-17.5°	16763.7	11329.4	9210.3	8216.1	7504.2	6972.3	6403.4	5816.2	5327.5	4709.3	3292.8
-20°	11430.8	9688.1	8718.2	7937.5	7308.3	6852.9	6233.4	5723.9	5205.3	4239.4	3044.6



REPORT NUMBER: P731725 (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°	9689.3	8902.3	8264.7	7653.4	7221.5	6648.9	6082.0	5584.6	5026.2	3706.8	2771.2
-25°	8804.6	8311.5	7860.9	7516.0	7048.9	6461.3	5942.5	5363.4	4419.3	3266.7	2519.2
-27.5°	8164.4	7828.4	7623.9	7291.5	6793.0	6283.4	5745.9	5027.3	3725.2	2908.9	2526.2
-30°	7703.1	7536.5	7321.4	6980.9	6528.0	6043.1	5517.2	4298.5	3251.7	2628.9	2517.1
-32.5°	7401.7	7225.3	6972.3	6621.1	6212.2	5760.8	4702.3	3612.4	2815.0	2611.1	2457.8
-35°	7120.8	6859.2	6524.4	6192.5	5873.7	4855.0	3809.5	3024.8	2700.7	2569.4	2377.1
-37.5°	6673.9	6359.5	6021.4	5618.1	4749.2	3835.0	3097.4	2773.9	2659.2	2477.5	2257.2
-40°	6056.6	5736.9	5112.2	4424.1	3708.6	3005.5	2818.6	2729.5	2554.6	2355.1	2112.5
-42.5°	5013.8	4430.9	3904.1	3356.7	2903.4	2837.8	2751.9	2600.4	2416.0	2188.6	1959.9
-45°	3728.1	3276.7	2892.6	2867.8	2827.4	2729.5	2605.9	2430.9	2229.1	2014.5	1798.2
-47.5°	2856.7	2824.9	2808.6	2756.9	2670.3	2559.8	2399.2	2226.4	2031.5	1834.5	1649.3
-50°	2753.9	2698.4	2640.2	2568.6	2448.2	2315.6	2168.5	2006.2	1834.7	1669.4	1494.7
-52.5°	2570.6	2482.5	2390.8	2295.9	2190.2	2071.0	1936.1	1801.9	1656.9	1495.9	1334.2
-55°	2274.0	2194.3	2116.9	2031.2	1938.4	1838.6	1729.2	1602.2	1459.7	1311.6	1174.3
-57.5°	1985.7	1912.5	1854.8	1785.8	1707.2	1612.6	1508.0	1384.3	1258.6	1134.8	1015.1
-60°	1726.9	1659.3	1605.5	1540.1	1463.9	1377.4	1284.9	1179.9	1066.1	973.9	883.5
-62.5°	1465.1	1405.1	1350.6	1291.1	1224.5	1151.0	1073.0	998.1	913.3	829.0	741.2
-65°	1197.0	1138.9	1091.7	1054.9	1007.7	957.4	896.9	830.4	751.6	674.2	593.6
-67.5°	958.4	915.4	881.6	849.3	808.1	762.0	706.2	646.6	589.2	532.4	469.3
-70°	737.5	703.2	671.0	637.8	607.0	577.1	539.6	496.8	448.7	411.0	376.8
-72.5°	543.7	522.0	499.6	477.4	452.3	434.8	416.3	393.2	366.9	337.7	312.7
-75°	414.9	402.9	390.9	380.6	368.7	355.4	343.9	330.9	316.9	301.3	285.7
-77.5°	348.9	341.1	333.9	329.0	323.6	316.8	308.5	297.9	287.0	274.1	261.4
-80°	311.9	305.8	299.8	295.4	290.5	284.9	278.5	269.5	260.0	249.2	238.5
-82.5°	279.2	274.2	269.0	264.8	260.4	255.8	250.8	243.1	235.1	225.8	216.5
-85°	248.8	244.5	240.1	236.6	233.0	229.0	224.8	218.0	211.1	203.3	195.5
-87.5°	223.6	219.9	216.1	212.9	209.6	205.7	201.8	196.2	190.6	184.5	178.4
-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-57-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	159.4	152.5	147.4	142.2	136.5	130.7	124.4	118.1	110.1	102.0	92.3
87.5°	2.3	2.3	2.6	2.9	2.9	2.8	2.8	2.8	3.0	3.1	3.4
85°	2.7	2.6	3.0	3.4	3.4	3.4	3.3	3.2	3.6	3.9	3.9
82.5°	3.4	3.3	3.3	3.4	3.8	4.0	3.9	3.8	4.2	4.6	4.4
80°	3.9	4.1	3.9	3.8	4.2	4.6	4.4	4.3	4.7	5.0	4.9
77.5°	4.7	4.8	4.6	4.4	4.5	4.7	4.8	4.8	5.1	5.4	5.5
75°	5.7	5.3	4.8	4.8	4.9	4.8	5.1	5.4	5.8	5.9	6.0
72.5°	5.7	5.7	5.2	5.2	5.8	6.0	6.0	6.1	6.6	6.9	6.8
70°	8.7	6.7	6.3	6.6	7.0	7.4	7.5	7.7	7.5	7.9	8.0
67.5°	13.9	11.5	9.5	8.3	8.4	8.9	9.1	9.6	9.5	9.0	9.2
65°	26.7	19.3	13.6	11.9	10.6	10.5	10.8	11.7	11.7	11.5	10.5
62.5°	38.3	29.7	22.7	17.1	14.3	14.2	12.7	14.1	14.1	14.0	12.7
60°	48.7	39.8	32.9	27.0	21.8	19.2	18.1	16.8	17.1	16.7	15.4
57.5°	49.1	48.4	45.3	38.3	33.4	28.0	25.0	22.7	20.7	20.4	18.2
55°	49.9	50.5	56.5	52.4	47.4	40.1	35.0	30.8	25.8	24.5	21.2
52.5°	59.6	61.3	66.0	69.2	65.5	55.4	50.0	39.5	35.6	29.0	25.4
50°	76.4	82.4	83.1	88.9	85.9	79.2	66.3	55.6	46.2	35.4	30.0
47.5°	119.3	124.7	114.1	117.0	111.6	106.7	91.1	74.9	57.7	46.2	34.7
45°	226.8	195.1	176.8	161.5	147.7	142.0	121.1	96.2	77.4	57.4	39.6
42.5°	367.5	320.1	283.1	214.9	207.0	183.4	157.1	128.9	98.7	69.2	47.8
40°	566.1	475.3	412.5	340.0	280.3	230.3	203.6	165.8	121.3	84.0	58.4
37.5°	753.1	637.1	557.2	469.1	372.5	307.0	254.7	205.3	148.3	104.7	69.2
35°	903.4	788.2	680.1	589.1	491.2	383.8	309.6	249.5	183.1	126.4	80.2
32.5°	1039.7	917.3	794.6	692.2	585.8	458.8	373.6	293.4	218.0	148.8	91.7
30°	1160.5	1043.5	903.8	776.9	663.8	537.3	434.1	334.4	253.1	171.8	105.0
27.5°	1292.3	1174.3	1014.6	868.9	732.5	605.5	482.4	372.5	288.0	195.2	122.5
25°	1416.3	1296.2	1137.9	972.1	801.9	659.9	527.5	408.0	320.8	218.9	139.1
22.5°	1499.3	1398.9	1251.1	1081.4	878.4	713.0	571.6	446.6	343.0	240.5	154.6
20°	1566.3	1489.2	1351.2	1164.0	961.6	775.8	615.6	477.9	363.6	260.1	169.0
17.5°	1661.8	1562.1	1422.2	1233.5	1037.9	839.0	658.1	507.2	382.5	277.7	182.4
15°	1896.6	1625.9	1491.3	1298.8	1096.7	893.0	699.5	534.9	399.7	293.2	194.5
12.5°	2140.1	1688.0	1558.1	1355.4	1140.1	939.1	739.2	560.8	415.1	309.0	205.2
10°	2368.7	1742.0	1620.2	1407.0	1177.9	977.9	776.6	589.1	438.1	325.2	214.9
7.5°	2562.0	1791.2	1678.7	1453.7	1212.0	1012.9	814.3	624.5	461.3	340.0	223.4
5°	2725.2	1836.5	1735.5	1511.3	1252.4	1045.2	847.6	657.3	483.0	353.4	230.8
2.5°	2836.4	1877.5	1786.6	1564.9	1287.7	1072.1	876.1	687.0	502.9	365.1	236.9
0°	2910.0	1914.8	1829.9	1610.9	1317.4	1093.8	900.1	713.2	520.5	374.9	241.9
-2.5°	2933.2	1953.7	1865.5	1650.0	1364.8	1122.7	917.6	725.4	532.5	385.9	250.1
-5°	2916.6	1989.5	1894.5	1681.0	1404.5	1145.9	930.5	733.7	541.9	394.7	257.0
-7.5°	2866.9	2029.9	1918.7	1704.3	1435.1	1162.6	938.6	738.1	548.6	401.2	262.3
-10°	2781.9	2070.3	1938.0	1713.0	1439.8	1171.2	942.4	738.7	552.7	405.2	266.0
-12.5°	2675.0	2107.3	1950.1	1711.4	1434.1	1173.0	945.7	737.1	553.9	406.7	268.0
-15°	2538.2	2154.0	1965.4	1700.8	1421.4	1169.3	942.8	731.4	550.4	404.3	268.1
-17.5°	2359.0	2197.6	1975.2	1687.1	1403.9	1160.4	933.3	720.6	543.9	397.7	265.8
-20°	2354.5	2216.4	1969.9	1660.8	1378.9	1144.2	917.1	704.4	534.3	388.8	261.2



REPORT NUMBER: P731725 (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°	2387.3	2208.6	1938.9	1625.8	1349.1	1121.1	895.7	683.3	521.6	377.5	255.1
-25°	2405.3	2193.8	1895.6	1588.2	1318.5	1091.9	870.5	661.1	505.6	363.9	247.4
-27.5°	2376.0	2149.7	1839.0	1538.1	1283.6	1057.2	841.5	645.3	491.2	348.0	238.1
-30°	2325.8	2066.4	1769.9	1479.9	1238.4	1017.0	807.2	626.1	475.3	335.1	227.2
-32.5°	2251.0	1976.7	1691.8	1424.1	1187.0	970.8	768.4	603.2	456.8	324.1	220.1
-35°	2133.0	1875.7	1608.0	1361.2	1130.0	923.5	731.4	576.7	435.7	310.1	214.0
-37.5°	2005.6	1759.7	1530.7	1293.0	1070.3	872.0	698.7	548.5	412.1	293.3	207.2
-40°	1872.2	1642.5	1431.0	1219.3	1008.8	816.5	661.3	516.8	389.0	273.6	198.9
-42.5°	1732.3	1527.8	1328.0	1133.5	941.9	769.7	619.4	480.2	361.4	258.9	189.2
-45°	1601.4	1407.6	1219.2	1042.7	870.5	717.5	572.9	439.7	330.7	246.1	181.8
-47.5°	1463.7	1282.8	1109.9	946.0	805.4	659.5	520.6	402.2	297.6	231.4	178.9
-50°	1322.0	1155.8	998.5	858.4	729.7	595.0	466.0	361.6	277.9	214.2	175.4
-52.5°	1178.2	1028.1	894.3	771.3	647.9	524.7	415.5	319.6	256.7	204.7	171.1
-55°	1033.1	911.3	795.5	677.9	561.5	459.1	360.8	293.0	234.1	198.4	166.5
-57.5°	908.8	800.9	688.9	578.9	482.0	392.3	320.1	265.1	222.7	191.6	163.3
-60°	785.4	679.4	576.0	489.4	406.8	338.2	287.5	241.9	214.3	184.7	159.4
-62.5°	647.6	556.3	479.5	404.2	346.7	299.0	257.4	230.4	205.0	179.2	154.9
-65°	522.0	452.1	386.7	343.5	300.7	264.6	242.7	218.1	196.6	173.2	150.1
-67.5°	406.2	368.4	330.3	291.4	268.0	248.1	227.4	207.8	188.3	166.7	145.2
-70°	341.5	307.2	284.7	267.2	249.7	231.8	215.5	198.3	179.8	160.4	140.0
-72.5°	295.5	279.1	262.9	247.0	232.9	218.4	203.9	188.5	171.3	153.7	134.4
-75°	270.5	256.6	243.2	230.1	217.4	204.6	192.0	178.1	162.5	146.7	128.4
-77.5°	248.9	236.5	224.6	213.3	202.6	191.8	179.9	167.3	153.4	139.0	122.1
-80°	227.7	217.1	207.2	197.6	188.3	178.7	167.6	156.4	143.8	131.0	115.5
-82.5°	207.1	197.9	189.7	181.4	173.0	164.5	154.9	145.4	134.1	122.6	109.2
-85°	187.3	179.1	171.9	164.6	157.3	150.0	142.7	135.2	125.6	115.8	103.8
-87.5°	171.3	164.2	158.4	152.6	146.5	140.4	133.6	126.7	117.9	109.0	98.1
-90°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	82.6	69.4	56.2	40.7	25.2	14.3	3.4
87.5°	3.7	3.8	3.8	3.7	3.6	3.7	3.4
85°	4.0	4.2	4.2	4.0	3.8	4.0	3.4
82.5°	4.4	4.5	4.6	4.3	4.0	4.2	3.4
80°	4.7	4.9	5.0	4.6	4.2	4.5	3.4
77.5°	5.4	5.4	5.4	4.9	4.5	4.8	3.4
75°	6.0	6.1	5.8	5.2	4.7	5.1	3.4
72.5°	6.7	6.8	6.5	5.5	5.0	5.4	3.4
70°	7.5	7.5	7.1	5.8	5.3	5.7	3.4
67.5°	8.9	8.2	7.8	6.5	5.6	5.9	3.4
65°	10.3	9.3	8.5	7.2	6.0	6.2	3.4
62.5°	11.9	10.8	9.3	7.9	6.4	6.5	3.4
60°	13.6	12.4	10.1	8.6	6.8	6.8	3.4
57.5°	16.1	14.0	11.6	9.3	7.5	7.2	3.4
55°	18.8	15.7	13.2	10.1	8.3	7.5	3.4
52.5°	21.5	17.6	14.8	10.8	9.2	7.8	3.4
50°	24.3	20.1	16.5	11.6	10.0	8.1	3.4
47.5°	27.3	22.8	18.2	12.5	10.9	8.4	3.4
45°	31.6	25.6	19.9	13.8	11.7	8.7	3.4
42.5°	36.0	28.4	21.7	15.2	12.6	9.0	3.4
40°	40.7	31.4	23.7	16.9	13.5	9.4	3.4
37.5°	45.9	34.4	26.1	18.7	14.5	9.7	3.4
35°	51.2	38.2	28.4	20.7	15.4	10.0	3.4
32.5°	57.8	42.4	30.7	22.6	16.3	10.3	3.4
30°	67.4	46.7	33.0	24.5	17.3	10.7	3.4
27.5°	76.7	50.9	36.0	26.4	18.2	11.0	3.4
25°	85.9	55.0	39.0	28.2	19.2	11.3	3.4
22.5°	94.9	59.3	41.9	30.1	20.1	11.6	3.4
20°	103.6	63.6	44.8	31.9	21.0	11.9	3.4
17.5°	111.7	67.8	47.6	33.7	21.9	12.2	3.4
15°	119.2	71.7	50.3	35.5	22.8	12.4	3.4
12.5°	126.1	75.4	52.9	37.2	23.7	12.7	3.4
10°	132.4	79.0	55.4	38.9	24.5	12.9	3.4
7.5°	138.1	82.2	57.8	40.4	25.3	13.2	3.4
5°	143.2	85.3	60.1	41.9	26.1	13.4	3.4
2.5°	147.6	88.1	62.2	43.4	26.8	13.6	3.4
0°	151.3	90.6	64.2	44.7	27.5	13.8	3.4
-2.5°	156.2	94.4	67.1	46.7	28.7	14.4	3.4
-5°	160.3	97.9	69.8	48.6	29.9	14.9	3.4
-7.5°	163.7	101.2	72.3	50.3	31.0	15.4	3.4
-10°	166.2	104.1	74.6	52.0	32.1	15.9	3.4
-12.5°	168.0	106.8	76.8	53.5	33.1	16.4	3.4
-15°	169.0	109.1	78.8	54.9	34.0	16.8	3.4
-17.5°	169.1	111.1	80.5	56.2	34.8	17.2	3.4
-20°	168.5	112.7	82.1	57.3	35.6	17.6	3.4



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 CATALOG NUMBER: EPH-LS-08-0680N-57-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	167.2	114.0	83.4	58.3	36.3	18.0	3.4
-25°	165.0	115.2	84.5	59.2	36.9	18.3	3.4
-27.5°	161.9	116.1	85.3	59.9	37.4	18.6	3.4
-30°	158.0	116.7	86.0	60.4	37.9	18.8	3.4
-32.5°	153.2	117.0	86.9	60.8	38.2	19.0	3.4
-35°	151.5	116.9	87.5	61.0	38.5	19.2	3.4
-37.5°	151.0	116.8	87.9	61.1	38.7	19.4	3.4
-40°	150.1	117.0	88.0	61.0	38.8	19.5	3.4
-42.5°	148.7	117.0	88.1	60.9	38.9	19.6	3.4
-45°	146.9	116.6	88.0	60.8	38.8	19.6	3.4
-47.5°	144.5	116.0	87.6	60.5	38.6	19.6	3.4
-50°	142.8	115.1	87.0	60.4	38.4	19.5	3.4
-52.5°	141.0	113.9	86.2	60.1	38.1	19.5	3.4
-55°	138.8	112.2	85.1	59.7	37.7	19.4	3.4
-57.5°	136.3	110.2	83.7	59.2	37.2	19.2	3.4
-60°	133.3	107.9	82.2	58.4	36.6	19.0	3.4
-62.5°	130.2	105.4	81.0	57.6	36.0	18.8	3.4
-65°	126.7	102.6	79.5	56.6	35.4	18.5	3.4
-67.5°	123.0	99.8	77.8	55.4	34.7	18.2	3.4
-70°	118.9	97.0	76.0	54.2	33.9	17.9	3.4
-72.5°	114.7	94.0	73.9	52.9	33.0	17.6	3.4
-75°	110.3	90.6	71.7	51.5	32.1	17.2	3.4
-77.5°	105.5	87.1	69.5	50.0	31.1	16.8	3.4
-80°	100.4	83.7	67.1	48.3	30.0	16.3	3.4
-82.5°	96.1	80.3	64.6	46.6	28.9	15.9	3.4
-85°	91.8	76.8	61.9	44.7	27.7	15.4	3.4
-87.5°	87.3	73.2	59.1	42.8	26.5	14.8	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

