

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: P701486 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-80-1S-VHE-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701486 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0640L-40-80-1S-VHE-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

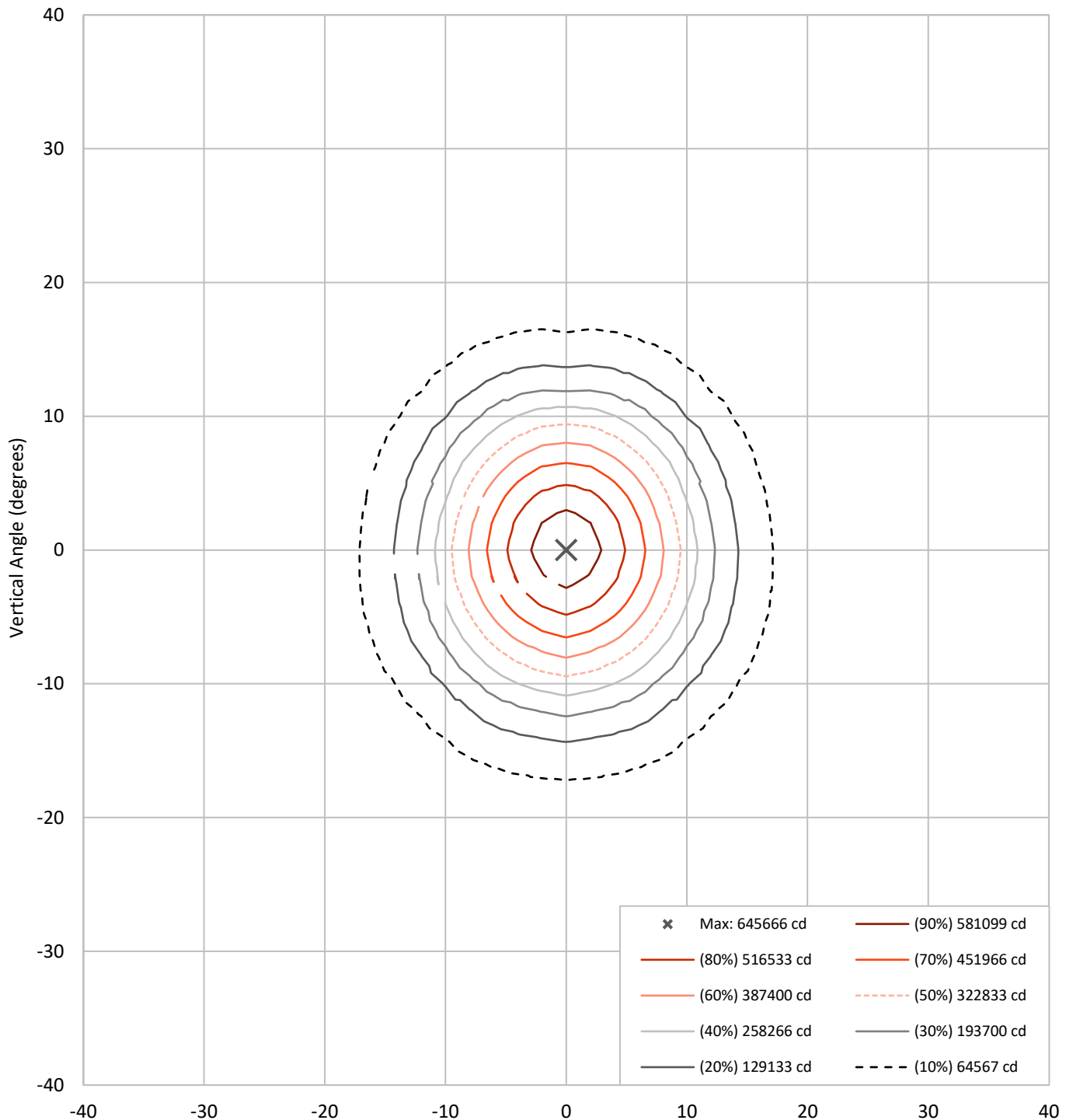
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	85105 lumens	Max Intensity:	645666 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	130.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 18.9°V	Field Angle (10%):	34°H x 33.3°V
Beam Lumens:	37725.6 lumens	Field Lumens:	68711.3 lumens
Beam Efficiency:	44.3%	Field Efficiency:	80.7%

Input Watts (W): 653.1  
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





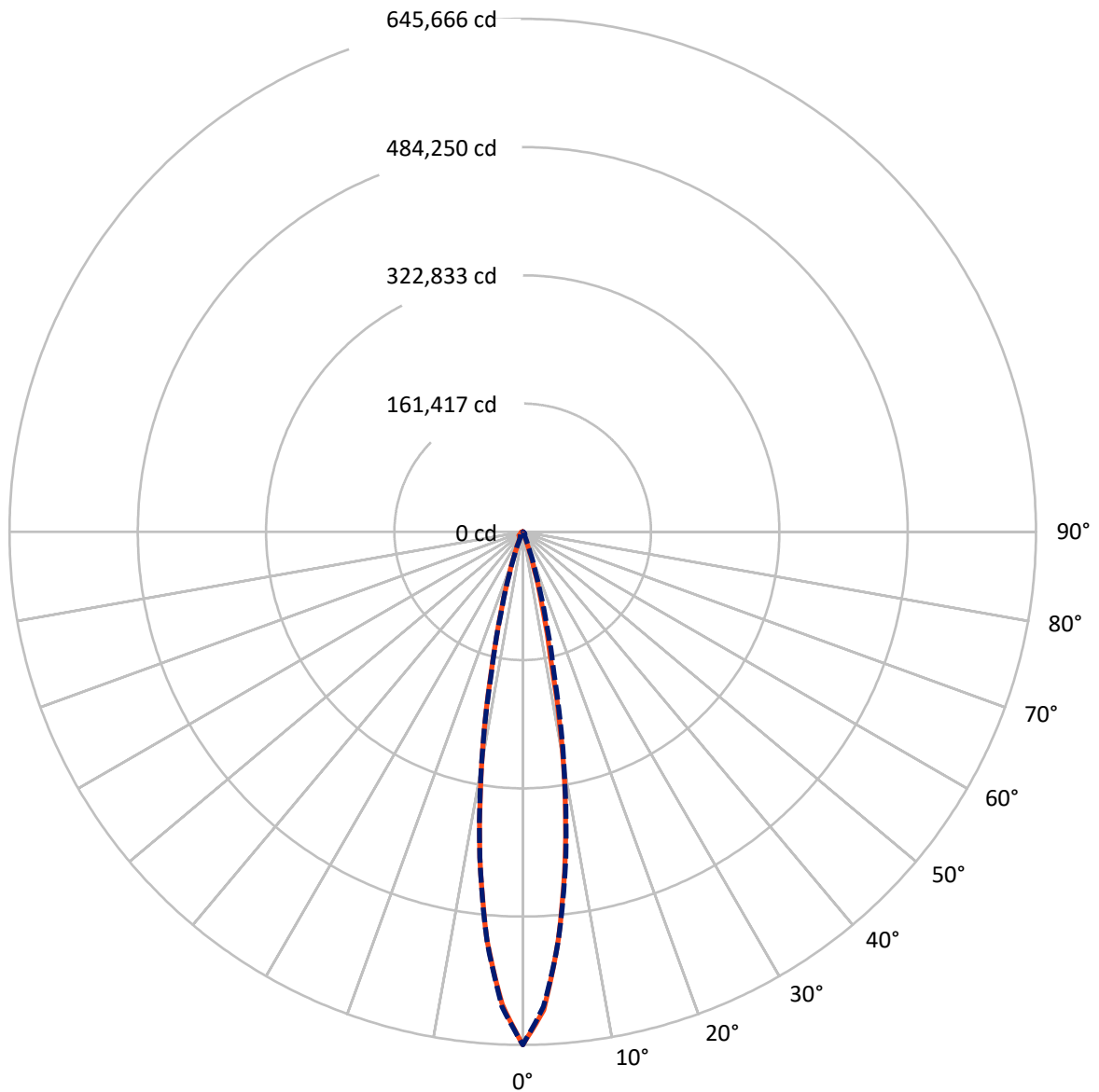
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### Lumen Table

90	0.3	1.1	2.2	2.9	3.3	2.9	2.2	1.1	0.3										
80	0.3	1.1	2.2	2.9	3.3	2.9	2.2	1.1	0.3										
70	0.4	0.2	0.3	0.6	0.7	0.4	0.3	0.3	0.3	0.3	0.4	0.7	0.6	0.3	0.2	0.4			
60		0.5	1.0	1.1	1.0	0.9	1.1	1.3	1.3	1.1	0.9	1.0	1.1	1.0	0.5				
50	1.2	1.5	3.2	6.2	9.6	16.6	25.2	27.9	27.9	25.2	16.6	9.6	6.2	3.2	1.5	1.2			
40		3.3	9.2	16.6	34.8	56.9	63.8	66.9	66.9	63.8	56.9	34.8	16.6	9.2	3.3				
30	2.8	5.5	15.0	30.8	73.2	77.7	94.3	156.1	156.1	94.3	77.7	73.2	30.8	15.0	5.5	2.8			
20		7.5	19.3	54.8	97.0	114.5	713.2	2841.9	2841.9	713.2	114.5	97.0	54.8	19.3	7.5				
10	4.1	9.1	22.6	72.6	108.2	213.6	2881.5	11988.4	11988.4	2881.5	213.6	108.2	72.6	22.6	9.1	4.1			
0		10.2	25.3	77.5	120.4	238.9	3029.3	11930.6	11930.6	3029.3	238.9	120.4	77.5	25.3	10.2				
-10	4.8	10.6	27.1	76.5	133.3	164.3	841.1	3079.3	3079.3	841.1	164.3	133.3	76.5	27.1	10.6	4.8			
-20		10.2	27.4	59.2	135.8	166.3	181.5	281.8	281.8	181.5	166.3	135.8	59.2	27.4	10.2				
-30	4.5	9.2	25.6	47.2	99.5	167.2	187.8	190.0	190.0	187.8	167.2	99.5	47.2	25.6	9.2	4.5			
-40		7.7	21.0	41.3	61.7	93.2	138.0	172.1	172.1	138.0	93.2	61.7	41.3	21.0	7.7				
-50	3.9	6.0	15.3	30.1	48.0	62.5	72.8	79.5	79.5	72.8	62.5	48.0	30.1	15.3	6.0	3.9			
-60		4.7	10.0	18.3	29.0	38.9	47.5	53.2	53.2	47.5	38.9	29.0	18.3	10.0	4.7				
-70	2.6	17.9	42.9	67.4	80.4	67.4	42.9	17.9	2.6							2.6			
-80		17.9	42.9	67.4	80.4	67.4	42.9	17.9	2.6										
-90	2.6	17.9	42.9	67.4	80.4	67.4	42.9	17.9	2.6										

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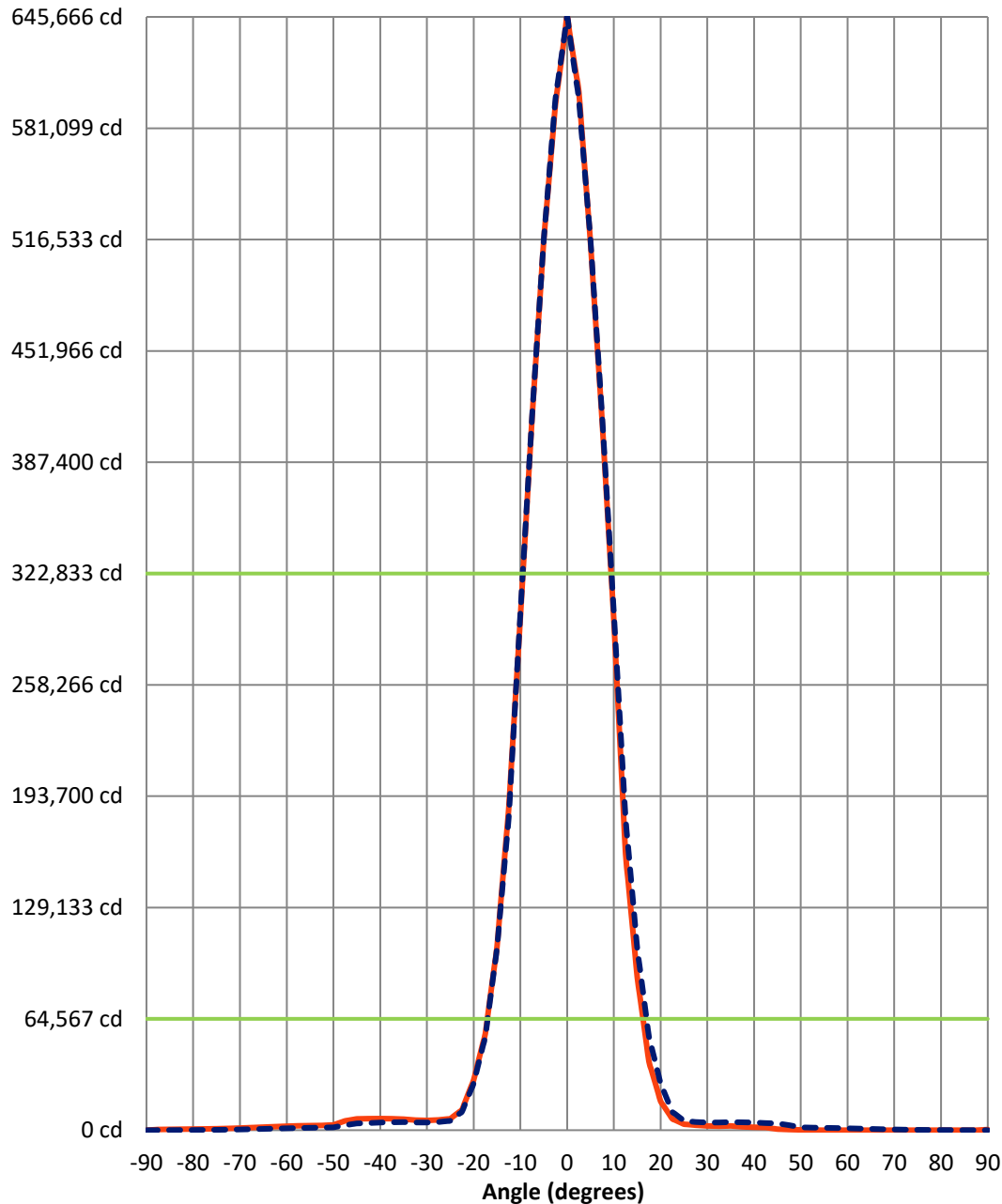
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 19°  
 V Angle: 18.9°  
 Lumens: 37725.6  
 Efficiency: 44.3%

**Field:**  
 H Angle: 34°  
 V Angle: 33.3°  
 Lumens: 68711.3  
 Efficiency: 80.7%

**Spill:**  
 Lumens: 16393.7  
 Efficiency: 19.3%

— 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°	9.2	24.6	40.1	60.1	80.1	100.2	120.2	134.5	148.7	163.0	177.2
87.5°	9.2	8.0	6.5	6.5	6.5	6.4	6.2	6.2	6.2	6.2	6.2
85°	9.2	8.2	6.7	6.8	6.7	6.5	6.2	6.2	6.2	6.2	6.2
82.5°	9.2	8.5	7.0	7.1	7.0	6.7	6.2	6.2	6.2	6.3	6.2
80°	9.2	8.8	7.3	7.4	7.3	6.9	6.4	6.7	6.8	6.6	6.3
77.5°	9.2	9.1	7.6	7.7	7.6	7.4	7.2	7.4	7.3	7.0	6.5
75°	9.2	9.4	8.0	8.0	8.0	8.4	8.1	8.1	8.0	8.0	7.4
72.5°	9.2	9.7	8.3	8.3	9.1	9.5	9.1	9.1	9.5	9.2	8.3
70°	9.2	10.0	8.7	8.8	10.2	10.7	10.2	10.7	11.0	10.6	10.1
67.5°	9.2	10.3	9.1	9.8	11.4	11.9	12.2	12.4	12.7	13.1	12.2
65°	9.2	10.6	9.5	10.8	12.6	13.6	14.4	14.2	15.6	15.8	15.0
62.5°	9.2	10.9	10.0	11.9	13.8	15.8	16.6	16.9	18.6	19.0	19.0
60°	9.2	11.2	10.4	12.9	15.0	18.2	19.1	20.1	21.8	23.5	23.3
57.5°	9.2	11.5	11.5	13.9	17.2	20.6	22.8	23.5	26.2	28.2	30.8
55°	9.2	11.8	12.6	15.0	19.4	23.2	27.0	27.8	31.0	34.3	40.4
52.5°	9.2	12.1	13.7	16.1	21.6	26.0	31.4	33.6	36.1	44.7	50.9
50°	9.2	12.5	14.8	17.1	23.9	30.1	36.0	40.0	42.9	55.7	67.6
47.5°	9.2	12.8	16.0	18.4	26.2	34.3	41.0	46.9	53.7	67.4	86.2
45°	9.2	13.1	17.2	20.2	28.6	38.6	47.5	54.3	67.1	85.5	106.0
42.5°	9.2	13.5	18.5	21.9	30.9	43.0	54.3	64.8	81.1	104.6	135.5
40°	9.2	13.8	19.8	24.3	33.9	47.6	61.3	77.4	97.4	124.8	168.6
37.5°	9.2	14.1	21.1	27.0	37.5	52.2	68.6	90.2	117.7	150.8	204.0
35°	9.2	14.5	22.4	29.8	41.0	57.7	76.1	103.4	138.5	183.6	243.8
32.5°	9.2	14.8	23.8	32.6	44.6	63.7	84.8	116.7	159.7	215.7	285.2
30°	9.2	15.1	25.1	35.5	48.1	69.7	95.6	131.2	181.2	247.0	324.9
27.5°	9.2	15.5	26.5	38.4	53.1	75.7	106.4	148.8	204.6	277.6	362.7
25°	9.2	15.8	27.9	41.3	58.2	81.7	117.0	166.3	230.3	309.0	398.9
22.5°	9.2	16.1	29.2	44.2	63.3	88.1	127.5	183.5	255.1	339.8	438.8
20°	9.2	16.4	30.6	47.1	68.3	95.4	137.8	200.5	278.8	368.8	476.4
17.5°	9.2	16.7	31.9	49.9	73.2	102.4	148.1	216.9	301.3	395.9	511.7
15°	9.2	17.0	33.2	52.7	78.0	109.2	158.1	232.1	322.7	421.2	544.6
12.5°	9.2	17.3	34.5	55.5	82.7	115.7	167.5	245.4	342.1	444.5	575.0
10°	9.2	17.6	35.7	58.2	87.2	121.9	176.3	257.5	359.8	470.0	606.3
7.5°	9.2	17.8	36.9	60.8	91.6	127.8	184.5	268.5	376.2	494.9	642.7
5°	9.2	18.1	38.1	63.2	95.7	133.3	192.0	278.3	391.2	518.4	676.9
2.5°	9.2	18.3	39.1	65.6	99.6	138.5	198.9	287.0	404.5	540.0	708.4
0°	9.2	18.5	40.1	67.8	103.3	143.3	205.0	294.4	416.1	559.4	736.7
-2.5°	9.2	19.4	42.3	71.4	107.9	149.3	212.3	304.5	429.7	574.4	752.5
-5°	9.2	20.3	44.4	74.8	112.2	154.8	218.8	313.2	441.2	586.8	764.7
-7.5°	9.2	21.1	46.4	78.0	116.3	159.9	224.6	320.5	450.6	596.5	773.3
-10°	9.2	22.0	48.2	81.0	120.1	164.6	229.5	326.3	457.6	603.6	778.3
-12.5°	9.2	22.8	50.0	83.8	123.5	168.9	233.7	330.6	462.1	608.4	783.6
-15°	9.2	23.5	51.6	86.4	126.7	172.7	237.1	333.2	464.7	612.8	786.6
-17.5°	9.2	24.3	53.1	88.8	129.6	176.0	239.6	335.1	465.6	614.1	785.3
-20°	9.2	24.9	54.5	90.9	132.1	178.8	241.8	336.1	464.0	612.2	779.7



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-1S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	9.2	25.6	55.7	92.8	134.4	181.1	243.8	335.2	459.9	607.2	769.7
-25°	9.2	26.2	56.8	94.5	136.3	183.3	244.9	332.4	453.2	598.9	755.2
-27.5°	9.2	26.8	57.7	95.9	138.0	185.2	244.8	327.7	443.9	588.0	742.9
-30°	9.2	27.3	58.5	97.0	139.3	186.4	243.7	321.0	435.3	575.2	727.2
-32.5°	9.2	27.8	59.1	97.8	140.4	187.1	241.6	317.4	426.1	559.4	707.7
-35°	9.2	28.2	59.5	98.4	141.1	187.2	240.8	314.0	414.6	540.7	684.4
-37.5°	9.2	28.6	59.8	98.7	141.4	187.0	240.3	309.2	400.6	519.0	660.4
-40°	9.2	28.9	59.9	98.8	141.4	187.0	239.1	303.0	384.2	499.0	633.0
-42.5°	9.2	29.2	59.8	98.5	141.0	186.4	237.1	295.5	372.4	477.3	601.2
-45°	9.2	29.4	59.6	98.0	140.2	185.3	234.3	289.0	362.2	452.7	566.2
-47.5°	9.2	29.5	59.2	97.1	139.1	183.7	230.8	284.8	350.4	425.5	535.2
-50°	9.2	29.6	58.6	96.1	137.5	181.5	227.9	279.7	336.0	408.9	500.9
-52.5°	9.2	29.7	57.8	94.9	135.6	178.8	224.5	273.7	325.7	390.2	465.3
-55°	9.2	29.7	56.9	93.4	133.3	175.7	220.5	267.1	316.8	369.5	441.3
-57.5°	9.2	29.7	55.8	91.7	130.6	172.1	215.8	261.4	306.9	355.7	415.2
-60°	9.2	29.5	54.5	89.7	127.5	168.0	210.5	254.4	296.6	343.3	391.5
-62.5°	9.2	29.4	54.0	87.4	124.3	163.5	204.7	246.6	287.3	329.9	376.2
-65°	9.2	29.2	53.3	84.9	120.6	158.4	198.2	238.1	277.1	317.5	359.8
-67.5°	9.2	28.9	52.4	82.2	116.7	153.0	191.2	228.9	266.2	304.7	344.2
-70°	9.2	28.6	51.5	79.2	112.4	147.2	183.7	219.0	254.3	291.1	328.5
-72.5°	9.2	28.3	50.4	77.2	107.8	141.0	175.7	208.6	241.6	276.0	311.6
-75°	9.2	27.9	49.2	75.2	102.9	134.4	167.2	197.5	228.3	260.1	293.1
-77.5°	9.2	27.4	47.9	73.1	99.3	127.4	158.2	185.9	214.1	243.4	273.7
-80°	9.2	26.9	46.5	70.8	95.9	121.8	148.8	173.8	199.4	225.8	253.1
-82.5°	9.2	26.4	45.0	68.3	92.2	116.8	141.8	162.6	184.2	207.6	231.7
-85°	9.2	25.9	43.5	65.7	88.4	111.5	134.9	153.5	172.5	191.9	211.8
-87.5°	9.2	25.3	41.8	63.0	84.4	105.9	127.7	144.1	160.7	177.6	194.6
-90°	9.2	7.7	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	190.7	204.2	217.7	231.2	241.2	251.2	261.2	271.2	279.7	288.2	296.7
87.5°	5.8	5.4	5.0	4.6	4.6	4.6	4.6	4.6	4.2	3.9	3.5
85°	5.8	5.4	5.0	4.6	4.6	4.6	4.6	4.6	4.2	3.9	3.5
82.5°	5.8	5.4	5.0	4.6	4.6	4.6	4.6	4.6	4.3	4.1	3.9
80°	5.9	5.5	5.3	5.1	5.1	5.1	4.9	4.7	4.6	4.7	4.7
77.5°	6.3	6.2	6.2	6.1	5.9	5.6	5.5	5.5	5.5	5.3	5.1
75°	7.1	7.0	6.9	6.5	6.1	6.1	6.2	6.2	6.0	5.6	5.2
72.5°	8.0	8.0	7.6	6.8	6.5	6.6	6.6	6.4	6.8	7.6	8.4
70°	9.3	9.1	8.9	8.2	7.3	7.7	9.0	10.1	11.2	13.1	15.8
67.5°	10.9	11.3	11.0	10.2	10.1	11.6	13.0	17.9	23.3	26.2	27.4
65°	13.7	14.0	14.7	14.9	14.0	18.2	23.8	30.3	36.3	37.4	36.5
62.5°	17.0	18.8	20.0	21.2	22.8	27.1	33.6	40.1	46.6	44.7	38.5
60°	23.6	24.5	28.1	31.6	32.8	35.2	42.2	45.9	47.9	46.7	36.3
57.5°	31.6	33.3	39.3	43.4	44.7	42.0	44.6	46.9	46.7	41.1	31.5
55°	42.8	45.0	52.4	57.8	57.5	47.4	46.8	49.0	45.5	39.9	31.1
52.5°	59.0	60.2	68.4	74.3	72.2	61.7	54.3	57.7	57.2	50.0	42.5
50°	76.7	83.6	86.7	94.9	94.3	85.8	71.7	78.8	91.2	88.9	78.2
47.5°	102.0	110.9	111.3	121.2	125.7	133.1	121.1	136.1	154.5	192.2	180.2
45°	132.3	147.0	148.1	157.4	180.6	208.6	219.9	219.0	312.1	345.6	370.1
42.5°	165.8	189.4	199.4	198.7	273.5	316.1	340.2	417.1	487.8	509.2	520.7
40°	208.1	236.6	258.2	306.5	383.9	442.8	503.6	585.6	624.2	628.0	628.2
37.5°	254.6	296.0	330.9	413.1	511.9	577.2	652.8	688.0	714.8	716.3	746.6
35°	304.4	360.1	424.6	516.3	625.2	699.3	743.0	774.8	789.5	823.0	970.4
32.5°	361.6	428.7	512.9	615.0	719.0	794.5	820.5	848.1	883.6	983.2	1415.8
30°	419.1	505.9	596.8	706.6	812.1	865.2	892.7	927.3	983.1	1371.5	1970.9
27.5°	468.0	578.3	677.4	792.0	899.6	936.4	968.3	1020.1	1257.1	1802.0	2634.9
25°	514.7	635.8	752.0	876.2	965.3	1006.0	1046.0	1116.3	1579.0	2442.4	3010.9
22.5°	561.6	693.9	819.7	959.5	1030.7	1073.0	1134.5	1397.0	2044.3	3082.2	3349.5
20°	609.6	752.0	886.9	1026.8	1093.7	1137.6	1222.1	1715.0	2612.8	3355.3	3602.8
17.5°	656.7	808.0	950.0	1074.3	1143.6	1205.7	1339.5	2034.7	3124.7	3624.7	3797.0
15°	702.4	861.5	1007.5	1120.2	1193.4	1279.2	1615.5	2460.0	3456.7	3866.5	4030.2
12.5°	746.3	912.3	1059.3	1164.2	1243.1	1352.0	1904.3	2880.5	3679.0	4056.9	4213.6
10°	787.7	959.9	1105.9	1206.3	1292.3	1423.2	2195.5	3235.4	3862.5	4185.6	4305.1
7.5°	826.9	1001.1	1147.5	1246.1	1340.1	1491.8	2478.0	3528.2	4007.2	4294.8	4368.4
5°	861.1	1034.7	1185.9	1288.9	1388.3	1552.5	2719.8	3762.6	4119.5	4385.7	4433.6
2.5°	890.5	1063.6	1220.7	1330.2	1434.8	1601.0	2836.7	3857.6	4133.7	4425.7	4501.4
0°	915.5	1088.1	1251.4	1368.6	1478.0	1642.9	2903.6	3906.9	4116.4	4437.0	4572.6
-2.5°	935.9	1121.4	1295.2	1409.0	1519.4	1682.6	2898.7	3945.0	4159.8	4539.0	4846.0
-5°	952.0	1149.4	1333.7	1446.5	1557.2	1716.6	2846.6	3934.0	4218.8	4629.3	5014.5
-7.5°	963.5	1171.3	1366.2	1481.7	1594.4	1755.4	2809.4	3981.2	4390.8	4736.5	5082.8
-10°	971.2	1185.7	1386.1	1514.6	1631.9	1793.8	2729.4	3961.4	4551.5	4844.0	5148.3
-12.5°	980.1	1193.9	1398.8	1543.3	1664.6	1824.0	2588.1	3866.8	4700.4	4959.8	5212.5
-15°	983.7	1196.6	1405.5	1567.4	1692.1	1845.6	2383.1	3691.6	4799.9	5022.8	5253.5
-17.5°	982.0	1194.0	1406.1	1586.7	1714.2	1858.0	2112.2	3367.1	4643.6	5047.5	5291.6
-20°	974.8	1186.1	1400.5	1600.9	1730.9	1873.5	2068.6	2994.2	4216.9	5029.0	5318.9



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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°	962.1	1172.9	1387.5	1593.0	1749.4	1893.2	2070.7	2607.4	3713.4	4966.4	5321.1
-25°	945.6	1154.3	1367.3	1584.4	1765.7	1906.5	2064.4	2269.5	3214.8	4424.7	5267.9
-27.5°	925.6	1129.2	1347.6	1568.0	1778.7	1915.2	2065.9	2253.5	2775.1	3798.8	5065.3
-30°	900.6	1101.3	1319.9	1542.6	1760.4	1924.4	2066.4	2216.4	2408.9	3234.2	4325.9
-32.5°	872.2	1067.1	1283.5	1505.0	1726.4	1930.6	2054.4	2190.3	2355.8	2652.3	3584.8
-35°	843.6	1032.0	1238.9	1458.5	1683.2	1893.7	2044.2	2165.8	2301.6	2481.9	2907.6
-37.5°	815.8	991.1	1186.8	1402.8	1623.4	1827.5	2025.3	2145.5	2269.8	2396.8	2573.9
-40°	783.0	944.3	1133.6	1338.0	1545.4	1749.0	1945.2	2124.8	2239.1	2349.0	2463.8
-42.5°	745.6	902.5	1076.2	1263.1	1458.9	1656.6	1855.9	2044.7	2205.1	2303.5	2408.1
-45°	705.1	855.5	1014.6	1186.8	1364.6	1555.8	1747.8	1940.3	2111.7	2265.0	2358.6
-47.5°	659.6	803.5	955.7	1104.6	1270.3	1446.2	1631.3	1812.3	1988.9	2151.9	2311.1
-50°	612.3	747.0	887.4	1026.4	1174.4	1335.2	1505.3	1676.7	1846.2	2012.0	2168.6
-52.5°	570.1	685.1	814.8	946.9	1081.4	1224.6	1375.9	1531.1	1693.4	1854.6	2000.2
-55°	524.5	629.3	737.5	862.1	989.9	1118.8	1245.1	1385.0	1530.0	1681.9	1817.8
-57.5°	487.7	571.7	666.6	772.2	892.0	1013.2	1124.4	1237.0	1366.0	1500.7	1618.8
-60°	455.1	521.3	598.6	690.2	788.6	898.0	1002.8	1106.7	1210.8	1313.7	1425.4
-62.5°	423.5	481.1	541.6	611.0	698.1	782.2	874.4	970.5	1066.5	1158.7	1248.0
-65°	404.4	444.6	496.1	552.8	609.5	682.8	757.5	831.3	916.1	999.4	1081.0
-67.5°	383.7	421.7	460.0	501.9	554.0	602.0	649.8	716.6	782.6	845.2	909.4
-70°	364.4	398.1	433.8	470.0	505.0	540.7	584.3	627.6	670.1	716.1	771.3
-72.5°	344.6	375.8	407.7	440.3	471.9	501.4	531.0	560.6	595.3	632.7	669.1
-75°	323.3	352.5	381.7	411.5	438.9	465.0	491.5	518.3	544.6	570.8	597.0
-77.5°	300.6	327.0	353.9	381.3	405.5	428.5	451.8	475.4	498.5	521.3	543.9
-80°	277.1	300.8	324.7	349.0	369.9	390.3	410.8	431.4	451.7	471.8	491.7
-82.5°	252.5	273.3	294.3	315.6	333.5	350.9	368.4	385.8	403.0	420.1	437.2
-85°	228.6	245.3	263.2	281.2	296.3	311.1	325.9	340.7	355.0	369.2	383.3
-87.5°	209.8	224.9	239.9	254.9	266.7	278.3	290.0	301.6	312.6	323.5	334.5
-90°	5.8	5.4	5.0	4.6	4.6	4.6	4.6	4.6	4.2	3.9	3.5



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	305.2	311.0	316.8	322.5	328.3	333.3	338.3	343.3	348.3	351.4	354.5
87.5°	3.1	3.0	3.0	3.0	3.0	2.6	2.3	1.9	1.5	1.5	1.5
85°	3.1	3.1	3.1	3.1	3.1	2.7	2.3	1.9	1.5	1.5	1.5
82.5°	3.8	3.7	3.6	3.4	3.1	3.0	3.0	2.9	2.9	3.0	3.0
80°	4.6	4.3	3.9	3.5	3.2	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	4.7	4.3	3.9	3.6	3.2	3.1	3.1	3.1	3.1	3.1	3.1
75°	4.8	4.6	4.9	4.9	4.6	4.6	4.6	4.5	4.4	4.1	3.8
72.5°	9.2	9.5	9.4	9.7	9.7	10.0	10.4	10.6	10.6	10.7	10.8
70°	17.3	17.9	18.4	18.1	17.0	16.2	15.8	15.3	14.8	15.2	16.1
67.5°	26.4	24.5	23.6	22.3	19.9	17.8	16.5	15.2	13.8	13.1	12.9
65°	32.7	25.8	22.5	20.0	18.0	15.6	13.5	11.6	9.9	8.9	8.4
62.5°	31.1	22.2	17.5	14.8	12.3	10.2	8.4	7.1	6.1	5.6	5.7
60°	26.6	17.4	12.2	9.8	7.4	4.9	4.5	4.3	4.0	3.7	3.9
57.5°	23.7	15.6	9.5	9.3	8.0	5.8	5.0	5.1	4.3	3.1	3.6
55°	26.4	22.3	15.5	15.9	15.6	13.1	11.2	13.3	12.8	10.1	11.0
52.5°	39.7	45.5	37.2	34.5	47.0	46.6	36.5	49.8	57.2	56.0	57.1
50°	93.4	105.5	118.3	108.3	132.9	147.6	144.4	161.8	179.6	179.2	184.8
47.5°	221.3	254.6	258.2	264.9	293.1	328.8	358.0	378.5	388.9	384.6	387.7
45°	395.9	403.4	420.7	459.0	506.9	564.5	608.5	634.0	720.0	781.0	816.7
42.5°	524.8	548.2	590.6	691.6	765.7	935.8	1141.7	1221.6	1322.8	1374.0	1377.2
40°	653.9	713.6	888.8	1072.8	1472.4	1769.6	1787.4	1913.5	1971.5	1907.5	1897.9
37.5°	867.4	1089.2	1390.0	1815.3	2001.2	2082.0	2126.4	2142.5	2154.2	2143.5	2138.0
35°	1288.1	1673.7	1969.0	2107.7	2191.7	2194.3	2204.6	2203.3	2189.5	2182.3	2167.0
32.5°	1908.5	2276.3	2285.3	2274.5	2292.1	2282.0	2262.8	2253.8	2224.0	2206.0	2212.1
30°	2548.1	2550.2	2513.9	2429.6	2387.5	2374.6	2346.6	2323.6	2295.4	2299.6	2398.0
27.5°	2802.0	2770.9	2720.1	2647.4	2506.1	2478.4	2455.9	2446.3	2564.6	2672.6	2769.1
25°	3086.0	3005.4	2977.6	2914.1	2768.7	2607.9	2678.7	2789.9	2944.5	3105.6	3260.9
22.5°	3331.6	3273.4	3255.5	3231.9	2994.7	2925.4	3022.5	3205.4	3416.7	3696.5	4495.4
20°	3573.6	3510.8	3490.2	3371.8	3247.5	3264.6	3444.9	3764.1	4354.9	6477.8	9070.2
17.5°	3777.1	3712.0	3641.7	3503.6	3464.0	3637.1	3997.8	5118.7	7907.4	14875.5	21957.8
15°	3966.7	3881.2	3761.6	3671.0	3746.0	4068.2	4961.6	8780.7	17813.6	29509.7	44256.5
12.5°	4135.2	4004.4	3837.0	3790.0	4017.9	4560.5	8064.6	17230.0	31047.3	47709.9	82329.9
10°	4252.4	4082.8	3936.9	4018.0	4380.3	5836.9	11605.3	25831.7	46273.0	83541.2	126642.0
7.5°	4302.8	4149.3	4064.4	4238.6	4722.3	7496.0	17470.4	35725.4	65355.4	115468.2	184236.6
5°	4359.9	4254.0	4206.6	4456.9	5051.7	8847.7	21688.5	44051.3	85761.7	145454.4	234010.8
2.5°	4475.3	4374.4	4341.4	4648.5	5339.9	10107.9	24984.7	50524.2	99281.2	170476.1	278181.0
0°	4679.0	4469.4	4443.2	4743.7	5455.7	10681.8	27147.6	54427.7	105711.5	181182.3	299913.6
-2.5°	4840.7	4591.0	4541.1	4809.1	5506.7	10400.7	26928.2	54293.2	103088.1	177604.0	286112.4
-5°	4981.8	4731.3	4662.4	4911.4	5618.8	10390.2	25501.6	49817.1	92245.0	156063.7	241123.9
-7.5°	5107.4	4890.8	4788.9	4987.0	5633.5	9304.7	20626.6	41015.1	73733.7	121845.8	186627.2
-10°	5239.8	5073.5	4934.6	5067.1	5570.9	7403.3	13799.0	29565.3	52510.1	88361.1	132813.2
-12.5°	5391.1	5307.3	5103.1	5122.4	5486.2	6247.3	10198.8	20641.0	36455.8	55661.9	87883.4
-15°	5519.5	5515.7	5344.8	5290.4	5471.2	5959.4	7115.5	11462.5	22114.0	35780.6	51720.0
-17.5°	5546.2	5682.9	5617.4	5451.3	5462.0	5735.6	6212.2	7596.0	11108.0	19687.3	29171.2
-20°	5563.5	5855.3	5862.1	5727.3	5609.1	5578.5	5796.5	6200.1	6984.8	9884.0	13700.1



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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°	5589.9	5867.2	6064.5	6027.2	5795.2	5659.5	5610.7	5763.6	6029.2	6403.3	7641.5
-25°	5602.4	5861.2	6143.6	6221.1	6123.8	5875.4	5689.7	5586.0	5679.9	5798.7	6040.8
-27.5°	5549.0	5851.9	6125.8	6355.3	6383.2	6220.8	5947.8	5726.3	5640.1	5558.6	5658.3
-30°	5460.2	5798.6	6084.9	6367.3	6480.3	6428.3	6285.4	6105.5	5895.7	5732.4	5675.1
-32.5°	4733.2	5718.8	6012.1	6256.8	6443.1	6496.3	6497.8	6401.5	6311.8	6185.9	6038.6
-35°	3899.6	4992.9	5947.1	6070.3	6241.1	6417.5	6548.5	6552.9	6542.4	6482.7	6420.6
-37.5°	3031.4	4050.2	4967.9	5702.5	5960.8	6168.4	6392.7	6544.3	6639.5	6622.3	6610.9
-40°	2639.2	2960.3	3818.8	4567.6	5195.9	5787.0	6029.9	6302.3	6521.3	6597.6	6649.0
-42.5°	2518.1	2655.4	2795.2	3362.6	4009.8	4579.1	5114.4	5624.9	6080.8	6339.1	6518.9
-45°	2451.6	2528.1	2613.6	2740.0	2849.2	3320.7	3800.4	4266.2	4834.9	5358.4	5812.4
-47.5°	2390.2	2449.9	2516.2	2581.2	2641.8	2727.5	2801.7	2933.9	3359.9	3789.4	4220.4
-50°	2291.2	2390.0	2444.9	2493.5	2536.3	2576.1	2610.4	2670.1	2740.9	2802.5	2864.8
-52.5°	2125.7	2236.9	2342.6	2422.6	2456.2	2489.2	2522.9	2568.2	2610.1	2648.3	2677.8
-55°	1940.2	2052.8	2159.3	2240.4	2313.1	2380.1	2439.8	2479.9	2518.9	2556.6	2585.3
-57.5°	1736.2	1851.0	1955.1	2032.8	2105.6	2173.1	2238.8	2301.9	2359.7	2411.8	2456.2
-60°	1529.6	1626.5	1720.5	1802.8	1877.8	1945.4	2010.3	2072.5	2129.3	2180.5	2224.9
-62.5°	1335.7	1425.4	1499.8	1567.0	1631.6	1694.0	1759.7	1820.2	1875.2	1925.5	1971.5
-65°	1160.7	1238.1	1294.4	1347.0	1396.8	1450.4	1508.2	1561.5	1610.1	1655.2	1696.8
-67.5°	980.9	1047.8	1097.3	1142.9	1185.3	1228.0	1274.2	1317.3	1357.0	1394.9	1430.5
-70°	824.7	871.4	905.9	940.8	978.5	1017.0	1056.8	1093.1	1125.7	1156.8	1185.4
-72.5°	704.5	733.3	757.5	787.3	814.2	842.9	872.5	899.8	924.9	949.2	972.1
-75°	623.3	644.3	664.1	682.5	699.8	720.3	741.6	761.8	780.7	798.5	815.3
-77.5°	566.7	583.1	596.6	609.5	621.7	637.6	654.3	670.6	686.4	699.8	712.2
-80°	511.4	524.6	536.2	547.3	558.1	571.8	585.8	599.5	612.8	624.9	636.5
-82.5°	454.2	464.9	474.7	484.3	493.5	505.1	516.7	527.9	538.8	548.8	558.5
-85°	397.3	405.5	413.2	420.7	427.9	437.4	446.8	456.0	465.0	471.5	477.7
-87.5°	345.5	351.5	357.4	363.1	368.8	375.6	382.4	389.2	395.9	400.2	404.5
-90°	3.1	2.7	2.3	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5



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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°	357.5	360.6	359.9	359.1	359.9	360.6	357.5	354.5	351.4	348.3	343.3
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	2.9	2.9
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	3.5	3.1	3.1	3.1	3.1	3.1	3.5	3.8	4.1	4.4	4.5
72.5°	10.8	10.6	10.7	10.8	10.7	10.6	10.8	10.8	10.7	10.6	10.6
70°	17.1	18.2	18.4	18.5	18.4	18.2	17.1	16.1	15.2	14.8	15.3
67.5°	12.7	12.5	11.7	10.8	11.7	12.5	12.7	12.9	13.1	13.8	15.2
65°	8.1	7.9	7.7	7.7	7.7	7.9	8.1	8.4	8.9	9.9	11.6
62.5°	5.9	6.2	6.2	6.2	6.2	6.2	5.9	5.7	5.6	6.1	7.1
60°	4.2	4.6	4.6	4.6	4.6	4.6	4.2	3.9	3.7	4.0	4.3
57.5°	4.0	4.5	4.6	4.6	4.6	4.5	4.0	3.6	3.1	4.3	5.1
55°	11.7	12.0	11.6	10.8	11.6	12.0	11.7	11.0	10.1	12.8	13.3
52.5°	56.2	51.9	45.2	37.0	45.2	51.9	56.2	57.1	56.0	57.2	49.8
50°	195.6	200.8	196.2	181.9	196.2	200.8	195.6	184.8	179.2	179.6	161.8
47.5°	402.8	407.3	393.3	360.6	393.3	407.3	402.8	387.7	384.6	388.9	378.5
45°	843.4	836.9	764.3	613.4	764.3	836.9	843.4	816.7	781.0	720.0	634.0
42.5°	1454.4	1519.2	1557.4	1558.1	1557.4	1519.2	1454.4	1377.2	1374.0	1322.8	1221.6
40°	1882.5	1806.5	1723.6	1710.7	1723.6	1806.5	1882.5	1897.9	1907.5	1971.5	1913.5
37.5°	2125.0	2141.0	2131.8	1952.7	2131.8	2141.0	2125.0	2138.0	2143.5	2154.2	2142.5
35°	2202.2	2322.6	2446.5	2472.0	2446.5	2322.6	2202.2	2167.0	2182.3	2189.5	2203.3
32.5°	2239.5	2280.8	2292.0	2296.3	2292.0	2280.8	2239.5	2212.1	2206.0	2224.0	2253.8
30°	2443.4	2470.4	2466.5	2461.2	2466.5	2470.4	2443.4	2398.0	2299.6	2295.4	2323.6
27.5°	2814.6	2859.2	2879.1	2892.8	2879.1	2859.2	2814.6	2769.1	2672.6	2564.6	2446.3
25°	3345.8	3414.1	3460.9	3481.5	3460.9	3414.1	3345.8	3260.9	3105.6	2944.5	2789.9
22.5°	5418.1	5890.9	6358.8	6600.8	6358.8	5890.9	5418.1	4495.4	3696.5	3416.7	3205.4
20°	13525.9	15568.7	16501.7	16774.0	16501.7	15568.7	13525.9	9070.2	6477.8	4354.9	3764.1
17.5°	31498.8	39242.6	44422.0	39883.8	44422.0	39242.6	31498.8	21957.8	14875.5	7907.4	5118.7
15°	64470.9	84083.0	95057.4	88882.0	95057.4	84083.0	64470.9	44256.5	29509.7	17813.6	8780.7
12.5°	116158.1	146765.8	167323.0	160543.9	167323.0	146765.8	116158.1	82329.9	47709.9	31047.3	17230.0
10°	182830.3	244377.5	285359.3	295490.5	285359.3	244377.5	182830.3	126642.0	83541.2	46273.0	25831.7
7.5°	265321.8	341525.6	401677.0	410986.9	401677.0	341525.6	265321.8	184236.6	115468.2	65355.4	35725.4
5°	346022.8	435971.5	498557.9	514805.8	498557.9	435971.5	346022.8	234010.8	145454.4	85761.7	44051.3
2.5°	396111.7	494013.6	569402.2	602609.0	569402.2	494013.6	396111.7	278181.0	170476.1	99281.2	50524.2
0°	413989.8	516236.0	598032.6	645666.0	598032.6	516236.0	413989.8	299913.6	181182.3	105711.5	54427.7
-2.5°	400128.6	492722.0	561773.0	594886.2	561773.0	492722.0	400128.6	286112.4	177604.0	103088.1	54293.2
-5°	340796.5	432794.8	488975.9	515949.3	488975.9	432794.8	340796.5	241123.9	156063.7	92245.0	49817.1
-7.5°	266302.2	339935.5	388449.1	412988.8	388449.1	339935.5	266302.2	186627.2	121845.8	73733.7	41015.1
-10°	186331.6	244750.0	277452.0	297475.5	277452.0	244750.0	186331.6	132813.2	88361.1	52510.1	29565.3
-12.5°	121236.4	155239.5	173554.8	186383.7	173554.8	155239.5	121236.4	87883.4	55661.9	36455.8	20641.0
-15°	73597.7	90169.4	100113.1	106346.5	100113.1	90169.4	73597.7	51720.0	35780.6	22114.0	11462.5
-17.5°	41077.9	48195.6	53235.6	56024.4	53235.6	48195.6	41077.9	29171.2	19687.3	11108.0	7596.0
-20°	20383.0	24885.7	27843.2	29084.8	27843.2	24885.7	20383.0	13700.1	9884.0	6984.8	6200.1



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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°	9406.8	10609.6	11405.9	11785.3	11405.9	10609.6	9406.8	7641.5	6403.3	6029.2	5763.6
-25°	6276.3	6465.0	6603.7	6664.0	6603.7	6465.0	6276.3	6040.8	5798.7	5679.9	5586.0
-27.5°	5748.6	5848.6	5931.6	5964.3	5931.6	5848.6	5748.6	5658.3	5558.6	5640.1	5726.3
-30°	5631.1	5635.5	5659.0	5659.2	5659.0	5635.5	5631.1	5675.1	5732.4	5895.7	6105.5
-32.5°	5927.1	5862.1	5833.7	5864.1	5833.7	5862.1	5927.1	6038.6	6185.9	6311.8	6401.5
-35°	6379.2	6361.7	6363.2	6395.8	6363.2	6361.7	6379.2	6420.6	6482.7	6542.4	6552.9
-37.5°	6613.8	6627.6	6643.1	6647.0	6643.1	6627.6	6613.8	6610.9	6622.3	6639.5	6544.3
-40°	6678.9	6705.8	6726.2	6733.3	6726.2	6705.8	6678.9	6649.0	6597.6	6521.3	6302.3
-42.5°	6598.2	6651.9	6680.3	6687.1	6680.3	6651.9	6598.2	6518.9	6339.1	6080.8	5624.9
-45°	6142.1	6381.3	6516.6	6553.0	6516.6	6381.3	6142.1	5812.4	5358.4	4834.9	4266.2
-47.5°	4639.6	5015.1	5276.4	5397.2	5276.4	5015.1	4639.6	4220.4	3789.4	3359.9	2933.9
-50°	2930.1	2992.0	3038.3	3066.9	3038.3	2992.0	2930.1	2864.8	2802.5	2740.9	2670.1
-52.5°	2703.2	2726.0	2739.2	2744.8	2739.2	2726.0	2703.2	2677.8	2648.3	2610.1	2568.2
-55°	2609.8	2630.9	2640.1	2641.6	2640.1	2630.9	2609.8	2585.3	2556.6	2518.9	2479.9
-57.5°	2494.5	2526.5	2540.6	2542.9	2540.6	2526.5	2494.5	2456.2	2411.8	2359.7	2301.9
-60°	2262.6	2293.6	2309.0	2314.8	2309.0	2293.6	2262.6	2224.9	2180.5	2129.3	2072.5
-62.5°	2011.5	2045.2	2055.5	2054.4	2055.5	2045.2	2011.5	1971.5	1925.5	1875.2	1820.2
-65°	1733.1	1764.1	1772.9	1772.3	1772.9	1764.1	1733.1	1696.8	1655.2	1610.1	1561.5
-67.5°	1462.0	1489.3	1498.7	1501.1	1498.7	1489.3	1462.0	1430.5	1394.9	1357.0	1317.3
-70°	1210.4	1232.0	1237.4	1237.6	1237.4	1232.0	1210.4	1185.4	1156.8	1125.7	1093.1
-72.5°	992.8	1011.4	1014.6	1014.1	1014.6	1011.4	992.8	972.1	949.2	924.9	899.8
-75°	831.1	845.8	846.3	844.6	846.3	845.8	831.1	815.3	798.5	780.7	761.8
-77.5°	723.8	734.8	737.0	738.2	737.0	734.8	723.8	712.2	699.8	686.4	670.6
-80°	647.6	658.1	657.8	656.5	657.8	658.1	647.6	636.5	624.9	612.8	599.5
-82.5°	567.8	576.8	576.9	576.4	576.9	576.8	567.8	558.5	548.8	538.8	527.9
-85°	483.7	489.5	489.2	488.5	489.2	489.5	483.7	477.7	471.5	465.0	456.0
-87.5°	408.7	412.8	412.9	413.0	412.9	412.8	408.7	404.5	400.2	395.9	389.2
-90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	338.3	333.3	328.3	322.5	316.8	311.0	305.2	296.7	288.2	279.7	271.2
87.5°	2.3	2.6	3.0	3.0	3.0	3.0	3.1	3.5	3.9	4.2	4.6
85°	2.3	2.7	3.1	3.1	3.1	3.1	3.1	3.5	3.9	4.2	4.6
82.5°	3.0	3.0	3.1	3.4	3.6	3.7	3.8	3.9	4.1	4.3	4.6
80°	3.1	3.1	3.2	3.5	3.9	4.3	4.6	4.7	4.7	4.6	4.7
77.5°	3.1	3.1	3.2	3.6	3.9	4.3	4.7	5.1	5.3	5.5	5.5
75°	4.6	4.6	4.6	4.9	4.9	4.6	4.8	5.2	5.6	6.0	6.2
72.5°	10.4	10.0	9.7	9.7	9.4	9.5	9.2	8.4	7.6	6.8	6.4
70°	15.8	16.2	17.0	18.1	18.4	17.9	17.3	15.8	13.1	11.2	10.1
67.5°	16.5	17.8	19.9	22.3	23.6	24.5	26.4	27.4	26.2	23.3	17.9
65°	13.5	15.6	18.0	20.0	22.5	25.8	32.7	36.5	37.4	36.3	30.3
62.5°	8.4	10.2	12.3	14.8	17.5	22.2	31.1	38.5	44.7	46.6	40.1
60°	4.5	4.9	7.4	9.8	12.2	17.4	26.6	36.3	46.7	47.9	45.9
57.5°	5.0	5.8	8.0	9.3	9.5	15.6	23.7	31.5	41.1	46.7	46.9
55°	11.2	13.1	15.6	15.9	15.5	22.3	26.4	31.1	39.9	45.5	49.0
52.5°	36.5	46.6	47.0	34.5	37.2	45.5	39.7	42.5	50.0	57.2	57.7
50°	144.4	147.6	132.9	108.3	118.3	105.5	93.4	78.2	88.9	91.2	78.8
47.5°	358.0	328.8	293.1	264.9	258.2	254.6	221.3	180.2	192.2	154.5	136.1
45°	608.5	564.5	506.9	459.0	420.7	403.4	395.9	370.1	345.6	312.1	219.0
42.5°	1141.7	935.8	765.7	691.6	590.6	548.2	524.8	520.7	509.2	487.8	417.1
40°	1787.4	1769.6	1472.4	1072.8	888.8	713.6	653.9	628.2	628.0	624.2	585.6
37.5°	2126.4	2082.0	2001.2	1815.3	1390.0	1089.2	867.4	746.6	716.3	714.8	688.0
35°	2204.6	2194.3	2191.7	2107.7	1969.0	1673.7	1288.1	970.4	823.0	789.5	774.8
32.5°	2262.8	2282.0	2292.1	2274.5	2285.3	2276.3	1908.5	1415.8	983.2	883.6	848.1
30°	2346.6	2374.6	2387.5	2429.6	2513.9	2550.2	2548.1	1970.9	1371.5	983.1	927.3
27.5°	2455.9	2478.4	2506.1	2647.4	2720.1	2770.9	2802.0	2634.9	1802.0	1257.1	1020.1
25°	2678.7	2607.9	2768.7	2914.1	2977.6	3005.4	3086.0	3010.9	2442.4	1579.0	1116.3
22.5°	3022.5	2925.4	2994.7	3231.9	3255.5	3273.4	3331.6	3349.5	3082.2	2044.3	1397.0
20°	3444.9	3264.6	3247.5	3371.8	3490.2	3510.8	3573.6	3602.8	3355.3	2612.8	1715.0
17.5°	3997.8	3637.1	3464.0	3503.6	3641.7	3712.0	3777.1	3797.0	3624.7	3124.7	2034.7
15°	4961.6	4068.2	3746.0	3671.0	3761.6	3881.2	3966.7	4030.2	3866.5	3456.7	2460.0
12.5°	8064.6	4560.5	4017.9	3790.0	3837.0	4004.4	4135.2	4213.6	4056.9	3679.0	2880.5
10°	11605.3	5836.9	4380.3	4018.0	3936.9	4082.8	4252.4	4305.1	4185.6	3862.5	3235.4
7.5°	17470.4	7496.0	4722.3	4238.6	4064.4	4149.3	4302.8	4368.4	4294.8	4007.2	3528.2
5°	21688.5	8847.7	5051.7	4456.9	4206.6	4254.0	4359.9	4433.6	4385.7	4119.5	3762.6
2.5°	24984.7	10107.9	5339.9	4648.5	4341.4	4374.4	4475.3	4501.4	4425.7	4133.7	3857.6
0°	27147.6	10681.8	5455.7	4743.7	4443.2	4469.4	4679.0	4572.6	4437.0	4116.4	3906.9
-2.5°	26928.2	10400.7	5506.7	4809.1	4541.1	4591.0	4840.7	4846.0	4539.0	4159.8	3945.0
-5°	25501.6	10390.2	5618.8	4911.4	4662.4	4731.3	4981.8	5014.5	4629.3	4218.8	3934.0
-7.5°	20626.6	9304.7	5633.5	4987.0	4788.9	4890.8	5107.4	5082.8	4736.5	4390.8	3981.2
-10°	13799.0	7403.3	5570.9	5067.1	4934.6	5073.5	5239.8	5148.3	4844.0	4551.5	3961.4
-12.5°	10198.8	6247.3	5486.2	5122.4	5103.1	5307.3	5391.1	5212.5	4959.8	4700.4	3866.8
-15°	7115.5	5959.4	5471.2	5290.4	5344.8	5515.7	5519.5	5253.5	5022.8	4799.9	3691.6
-17.5°	6212.2	5735.6	5462.0	5451.3	5617.4	5682.9	5546.2	5291.6	5047.5	4643.6	3367.1
-20°	5796.5	5578.5	5609.1	5727.3	5862.1	5855.3	5563.5	5318.9	5029.0	4216.9	2994.2



REPORT NUMBER: P701486 (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°	5610.7	5659.5	5795.2	6027.2	6064.5	5867.2	5589.9	5321.1	4966.4	3713.4	2607.4
-25°	5689.7	5875.4	6123.8	6221.1	6143.6	5861.2	5602.4	5267.9	4424.7	3214.8	2269.5
-27.5°	5947.8	6220.8	6383.2	6355.3	6125.8	5851.9	5549.0	5065.3	3798.8	2775.1	2253.5
-30°	6285.4	6428.3	6480.3	6367.3	6084.9	5798.6	5460.2	4325.9	3234.2	2408.9	2216.4
-32.5°	6497.8	6496.3	6443.1	6256.8	6012.1	5718.8	4733.2	3584.8	2652.3	2355.8	2190.3
-35°	6548.5	6417.5	6241.1	6070.3	5947.1	4992.9	3899.6	2907.6	2481.9	2301.6	2165.8
-37.5°	6392.7	6168.4	5960.8	5702.5	4967.9	4050.2	3031.4	2573.9	2396.8	2269.8	2145.5
-40°	6029.9	5787.0	5195.9	4567.6	3818.8	2960.3	2639.2	2463.8	2349.0	2239.1	2124.8
-42.5°	5114.4	4579.1	4009.8	3362.6	2795.2	2655.4	2518.1	2408.1	2303.5	2205.1	2044.7
-45°	3800.4	3320.7	2849.2	2740.0	2613.6	2528.1	2451.6	2358.6	2265.0	2111.7	1940.3
-47.5°	2801.7	2727.5	2641.8	2581.2	2516.2	2449.9	2390.2	2311.1	2151.9	1988.9	1812.3
-50°	2610.4	2576.1	2536.3	2493.5	2444.9	2390.0	2291.2	2168.6	2012.0	1846.2	1676.7
-52.5°	2522.9	2489.2	2456.2	2422.6	2342.6	2236.9	2125.7	2000.2	1854.6	1693.4	1531.1
-55°	2439.8	2380.1	2313.1	2240.4	2159.3	2052.8	1940.2	1817.8	1681.9	1530.0	1385.0
-57.5°	2238.8	2173.1	2105.6	2032.8	1955.1	1851.0	1736.2	1618.8	1500.7	1366.0	1237.0
-60°	2010.3	1945.4	1877.8	1802.8	1720.5	1626.5	1529.6	1425.4	1313.7	1210.8	1106.7
-62.5°	1759.7	1694.0	1631.6	1567.0	1499.8	1425.4	1335.7	1248.0	1158.7	1066.5	970.5
-65°	1508.2	1450.4	1396.8	1347.0	1294.4	1238.1	1160.7	1081.0	999.4	916.1	831.3
-67.5°	1274.2	1228.0	1185.3	1142.9	1097.3	1047.8	980.9	909.4	845.2	782.6	716.6
-70°	1056.8	1017.0	978.5	940.8	905.9	871.4	824.7	771.3	716.1	670.1	627.6
-72.5°	872.5	842.9	814.2	787.3	757.5	733.3	704.5	669.1	632.7	595.3	560.6
-75°	741.6	720.3	699.8	682.5	664.1	644.3	623.3	597.0	570.8	544.6	518.3
-77.5°	654.3	637.6	621.7	609.5	596.6	583.1	566.7	543.9	521.3	498.5	475.4
-80°	585.8	571.8	558.1	547.3	536.2	524.6	511.4	491.7	471.8	451.7	431.4
-82.5°	516.7	505.1	493.5	484.3	474.7	464.9	454.2	437.2	420.1	403.0	385.8
-85°	446.8	437.4	427.9	420.7	413.2	405.5	397.3	383.3	369.2	355.0	340.7
-87.5°	382.4	375.6	368.8	363.1	357.4	351.5	345.5	334.5	323.5	312.6	301.6
-90°	1.5	1.5	1.5	1.9	2.3	2.7	3.1	3.5	3.9	4.2	4.6





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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°	261.2	251.2	241.2	231.2	217.7	204.2	190.7	177.2	163.0	148.7	134.5
87.5°	4.6	4.6	4.6	4.6	5.0	5.4	5.8	6.2	6.2	6.2	6.2
85°	4.6	4.6	4.6	4.6	5.0	5.4	5.8	6.2	6.2	6.2	6.2
82.5°	4.6	4.6	4.6	4.6	5.0	5.4	5.8	6.2	6.3	6.2	6.2
80°	4.9	5.1	5.1	5.1	5.3	5.5	5.9	6.3	6.6	6.8	6.7
77.5°	5.5	5.6	5.9	6.1	6.2	6.2	6.3	6.5	7.0	7.3	7.4
75°	6.2	6.1	6.1	6.5	6.9	7.0	7.1	7.4	8.0	8.0	8.1
72.5°	6.6	6.6	6.5	6.8	7.6	8.0	8.0	8.3	9.2	9.5	9.1
70°	9.0	7.7	7.3	8.2	8.9	9.1	9.3	10.1	10.6	11.0	10.7
67.5°	13.0	11.6	10.1	10.2	11.0	11.3	10.9	12.2	13.1	12.7	12.4
65°	23.8	18.2	14.0	14.9	14.7	14.0	13.7	15.0	15.8	15.6	14.2
62.5°	33.6	27.1	22.8	21.2	20.0	18.8	17.0	19.0	19.0	18.6	16.9
60°	42.2	35.2	32.8	31.6	28.1	24.5	23.6	23.3	23.5	21.8	20.1
57.5°	44.6	42.0	44.7	43.4	39.3	33.3	31.6	30.8	28.2	26.2	23.5
55°	46.8	47.4	57.5	57.8	52.4	45.0	42.8	40.4	34.3	31.0	27.8
52.5°	54.3	61.7	72.2	74.3	68.4	60.2	59.0	50.9	44.7	36.1	33.6
50°	71.7	85.8	94.3	94.9	86.7	83.6	76.7	67.6	55.7	42.9	40.0
47.5°	121.1	133.1	125.7	121.2	111.3	110.9	102.0	86.2	67.4	53.7	46.9
45°	219.9	208.6	180.6	157.4	148.1	147.0	132.3	106.0	85.5	67.1	54.3
42.5°	340.2	316.1	273.5	198.7	199.4	189.4	165.8	135.5	104.6	81.1	64.8
40°	503.6	442.8	383.9	306.5	258.2	236.6	208.1	168.6	124.8	97.4	77.4
37.5°	652.8	577.2	511.9	413.1	330.9	296.0	254.6	204.0	150.8	117.7	90.2
35°	743.0	699.3	625.2	516.3	424.6	360.1	304.4	243.8	183.6	138.5	103.4
32.5°	820.5	794.5	719.0	615.0	512.9	428.7	361.6	285.2	215.7	159.7	116.7
30°	892.7	865.2	812.1	706.6	596.8	505.9	419.1	324.9	247.0	181.2	131.2
27.5°	968.3	936.4	899.6	792.0	677.4	578.3	468.0	362.7	277.6	204.6	148.8
25°	1046.0	1006.0	965.3	876.2	752.0	635.8	514.7	398.9	309.0	230.3	166.3
22.5°	1134.5	1073.0	1030.7	959.5	819.7	693.9	561.6	438.8	339.8	255.1	183.5
20°	1222.1	1137.6	1093.7	1026.8	886.9	752.0	609.6	476.4	368.8	278.8	200.5
17.5°	1339.5	1205.7	1143.6	1074.3	950.0	808.0	656.7	511.7	395.9	301.3	216.9
15°	1615.5	1279.2	1193.4	1120.2	1007.5	861.5	702.4	544.6	421.2	322.7	232.1
12.5°	1904.3	1352.0	1243.1	1164.2	1059.3	912.3	746.3	575.0	444.5	342.1	245.4
10°	2195.5	1423.2	1292.3	1206.3	1105.9	959.9	787.7	606.3	470.0	359.8	257.5
7.5°	2478.0	1491.8	1340.1	1246.1	1147.5	1001.1	826.9	642.7	494.9	376.2	268.5
5°	2719.8	1552.5	1388.3	1288.9	1185.9	1034.7	861.1	676.9	518.4	391.2	278.3
2.5°	2836.7	1601.0	1434.8	1330.2	1220.7	1063.6	890.5	708.4	540.0	404.5	287.0
0°	2903.6	1642.9	1478.0	1368.6	1251.4	1088.1	915.5	736.7	559.4	416.1	294.4
-2.5°	2898.7	1682.6	1519.4	1409.0	1295.2	1121.4	935.9	752.5	574.4	429.7	304.5
-5°	2846.6	1716.6	1557.2	1446.5	1333.7	1149.4	952.0	764.7	586.8	441.2	313.2
-7.5°	2809.4	1755.4	1594.4	1481.7	1366.2	1171.3	963.5	773.3	596.5	450.6	320.5
-10°	2729.4	1793.8	1631.9	1514.6	1386.1	1185.7	971.2	778.3	603.6	457.6	326.3
-12.5°	2588.1	1824.0	1664.6	1543.3	1398.8	1193.9	980.1	783.6	608.4	462.1	330.6
-15°	2383.1	1845.6	1692.1	1567.4	1405.5	1196.6	983.7	786.6	612.8	464.7	333.2
-17.5°	2112.2	1858.0	1714.2	1586.7	1406.1	1194.0	982.0	785.3	614.1	465.6	335.1
-20°	2068.6	1873.5	1730.9	1600.9	1400.5	1186.1	974.8	779.7	612.2	464.0	336.1



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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°	2070.7	1893.2	1749.4	1593.0	1387.5	1172.9	962.1	769.7	607.2	459.9	335.2
-25°	2064.4	1906.5	1765.7	1584.4	1367.3	1154.3	945.6	755.2	598.9	453.2	332.4
-27.5°	2065.9	1915.2	1778.7	1568.0	1347.6	1129.2	925.6	742.9	588.0	443.9	327.7
-30°	2066.4	1924.4	1760.4	1542.6	1319.9	1101.3	900.6	727.2	575.2	435.3	321.0
-32.5°	2054.4	1930.6	1726.4	1505.0	1283.5	1067.1	872.2	707.7	559.4	426.1	317.4
-35°	2044.2	1893.7	1683.2	1458.5	1238.9	1032.0	843.6	684.4	540.7	414.6	314.0
-37.5°	2025.3	1827.5	1623.4	1402.8	1186.8	991.1	815.8	660.4	519.0	400.6	309.2
-40°	1945.2	1749.0	1545.4	1338.0	1133.6	944.3	783.0	633.0	499.0	384.2	303.0
-42.5°	1855.9	1656.6	1458.9	1263.1	1076.2	902.5	745.6	601.2	477.3	372.4	295.5
-45°	1747.8	1555.8	1364.6	1186.8	1014.6	855.5	705.1	566.2	452.7	362.2	289.0
-47.5°	1631.3	1446.2	1270.3	1104.6	955.7	803.5	659.6	535.2	425.5	350.4	284.8
-50°	1505.3	1335.2	1174.4	1026.4	887.4	747.0	612.3	500.9	408.9	336.0	279.7
-52.5°	1375.9	1224.6	1081.4	946.9	814.8	685.1	570.1	465.3	390.2	325.7	273.7
-55°	1245.1	1118.8	989.9	862.1	737.5	629.3	524.5	441.3	369.5	316.8	267.1
-57.5°	1124.4	1013.2	892.0	772.2	666.6	571.7	487.7	415.2	355.7	306.9	261.4
-60°	1002.8	898.0	788.6	690.2	598.6	521.3	455.1	391.5	343.3	296.6	254.4
-62.5°	874.4	782.2	698.1	611.0	541.6	481.1	423.5	376.2	329.9	287.3	246.6
-65°	757.5	682.8	609.5	552.8	496.1	444.6	404.4	359.8	317.5	277.1	238.1
-67.5°	649.8	602.0	554.0	501.9	460.0	421.7	383.7	344.2	304.7	266.2	228.9
-70°	584.3	540.7	505.0	470.0	433.8	398.1	364.4	328.5	291.1	254.3	219.0
-72.5°	531.0	501.4	471.9	440.3	407.7	375.8	344.6	311.6	276.0	241.6	208.6
-75°	491.5	465.0	438.9	411.5	381.7	352.5	323.3	293.1	260.1	228.3	197.5
-77.5°	451.8	428.5	405.5	381.3	353.9	327.0	300.6	273.7	243.4	214.1	185.9
-80°	410.8	390.3	369.9	349.0	324.7	300.8	277.1	253.1	225.8	199.4	173.8
-82.5°	368.4	350.9	333.5	315.6	294.3	273.3	252.5	231.7	207.6	184.2	162.6
-85°	325.9	311.1	296.3	281.2	263.2	245.3	228.6	211.8	191.9	172.5	153.5
-87.5°	290.0	278.3	266.7	254.9	239.9	224.9	209.8	194.6	177.6	160.7	144.1
-90°	4.6	4.6	4.6	4.6	5.0	5.4	5.8	6.2	6.2	6.2	6.2



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	120.2	100.2	80.1	60.1	40.1	24.6	9.2
87.5°	6.2	6.4	6.5	6.5	6.5	8.0	9.2
85°	6.2	6.5	6.7	6.8	6.7	8.2	9.2
82.5°	6.2	6.7	7.0	7.1	7.0	8.5	9.2
80°	6.4	6.9	7.3	7.4	7.3	8.8	9.2
77.5°	7.2	7.4	7.6	7.7	7.6	9.1	9.2
75°	8.1	8.4	8.0	8.0	8.0	9.4	9.2
72.5°	9.1	9.5	9.1	8.3	8.3	9.7	9.2
70°	10.2	10.7	10.2	8.8	8.7	10.0	9.2
67.5°	12.2	11.9	11.4	9.8	9.1	10.3	9.2
65°	14.4	13.6	12.6	10.8	9.5	10.6	9.2
62.5°	16.6	15.8	13.8	11.9	10.0	10.9	9.2
60°	19.1	18.2	15.0	12.9	10.4	11.2	9.2
57.5°	22.8	20.6	17.2	13.9	11.5	11.5	9.2
55°	27.0	23.2	19.4	15.0	12.6	11.8	9.2
52.5°	31.4	26.0	21.6	16.1	13.7	12.1	9.2
50°	36.0	30.1	23.9	17.1	14.8	12.5	9.2
47.5°	41.0	34.3	26.2	18.4	16.0	12.8	9.2
45°	47.5	38.6	28.6	20.2	17.2	13.1	9.2
42.5°	54.3	43.0	30.9	21.9	18.5	13.5	9.2
40°	61.3	47.6	33.9	24.3	19.8	13.8	9.2
37.5°	68.6	52.2	37.5	27.0	21.1	14.1	9.2
35°	76.1	57.7	41.0	29.8	22.4	14.5	9.2
32.5°	84.8	63.7	44.6	32.6	23.8	14.8	9.2
30°	95.6	69.7	48.1	35.5	25.1	15.1	9.2
27.5°	106.4	75.7	53.1	38.4	26.5	15.5	9.2
25°	117.0	81.7	58.2	41.3	27.9	15.8	9.2
22.5°	127.5	88.1	63.3	44.2	29.2	16.1	9.2
20°	137.8	95.4	68.3	47.1	30.6	16.4	9.2
17.5°	148.1	102.4	73.2	49.9	31.9	16.7	9.2
15°	158.1	109.2	78.0	52.7	33.2	17.0	9.2
12.5°	167.5	115.7	82.7	55.5	34.5	17.3	9.2
10°	176.3	121.9	87.2	58.2	35.7	17.6	9.2
7.5°	184.5	127.8	91.6	60.8	36.9	17.8	9.2
5°	192.0	133.3	95.7	63.2	38.1	18.1	9.2
2.5°	198.9	138.5	99.6	65.6	39.1	18.3	9.2
0°	205.0	143.3	103.3	67.8	40.1	18.5	9.2
-2.5°	212.3	149.3	107.9	71.4	42.3	19.4	9.2
-5°	218.8	154.8	112.2	74.8	44.4	20.3	9.2
-7.5°	224.6	159.9	116.3	78.0	46.4	21.1	9.2
-10°	229.5	164.6	120.1	81.0	48.2	22.0	9.2
-12.5°	233.7	168.9	123.5	83.8	50.0	22.8	9.2
-15°	237.1	172.7	126.7	86.4	51.6	23.5	9.2
-17.5°	239.6	176.0	129.6	88.8	53.1	24.3	9.2
-20°	241.8	178.8	132.1	90.9	54.5	24.9	9.2



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-1S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	243.8	181.1	134.4	92.8	55.7	25.6	9.2
-25°	244.9	183.3	136.3	94.5	56.8	26.2	9.2
-27.5°	244.8	185.2	138.0	95.9	57.7	26.8	9.2
-30°	243.7	186.4	139.3	97.0	58.5	27.3	9.2
-32.5°	241.6	187.1	140.4	97.8	59.1	27.8	9.2
-35°	240.8	187.2	141.1	98.4	59.5	28.2	9.2
-37.5°	240.3	187.0	141.4	98.7	59.8	28.6	9.2
-40°	239.1	187.0	141.4	98.8	59.9	28.9	9.2
-42.5°	237.1	186.4	141.0	98.5	59.8	29.2	9.2
-45°	234.3	185.3	140.2	98.0	59.6	29.4	9.2
-47.5°	230.8	183.7	139.1	97.1	59.2	29.5	9.2
-50°	227.9	181.5	137.5	96.1	58.6	29.6	9.2
-52.5°	224.5	178.8	135.6	94.9	57.8	29.7	9.2
-55°	220.5	175.7	133.3	93.4	56.9	29.7	9.2
-57.5°	215.8	172.1	130.6	91.7	55.8	29.7	9.2
-60°	210.5	168.0	127.5	89.7	54.5	29.5	9.2
-62.5°	204.7	163.5	124.3	87.4	54.0	29.4	9.2
-65°	198.2	158.4	120.6	84.9	53.3	29.2	9.2
-67.5°	191.2	153.0	116.7	82.2	52.4	28.9	9.2
-70°	183.7	147.2	112.4	79.2	51.5	28.6	9.2
-72.5°	175.7	141.0	107.8	77.2	50.4	28.3	9.2
-75°	167.2	134.4	102.9	75.2	49.2	27.9	9.2
-77.5°	158.2	127.4	99.3	73.1	47.9	27.4	9.2
-80°	148.8	121.8	95.9	70.8	46.5	26.9	9.2
-82.5°	141.8	116.8	92.2	68.3	45.0	26.4	9.2
-85°	134.9	111.5	88.4	65.7	43.5	25.9	9.2
-87.5°	127.7	105.9	84.4	63.0	41.8	25.3	9.2
-90°	6.2	6.2	6.2	6.2	6.2	7.7	9.2

(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

