

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: P731469 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-70-5S-VHE**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731469 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0530N-40-70-5S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

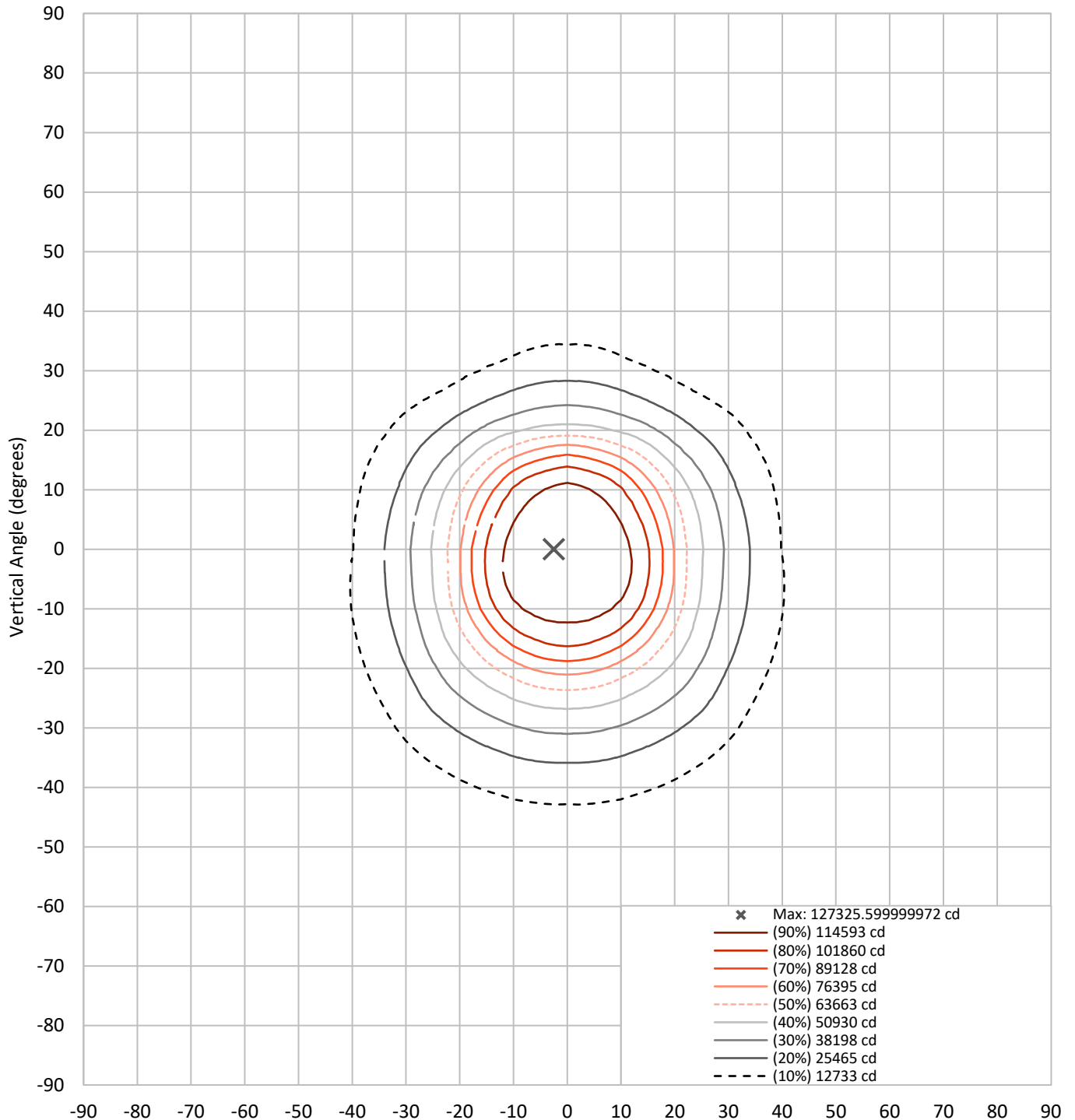
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	82906.2 lumens	Max Intensity:	127325.6 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	148.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	45523.3 lumens	Field Lumens:	76180.6 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

Input Watts (W): 559.9  
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





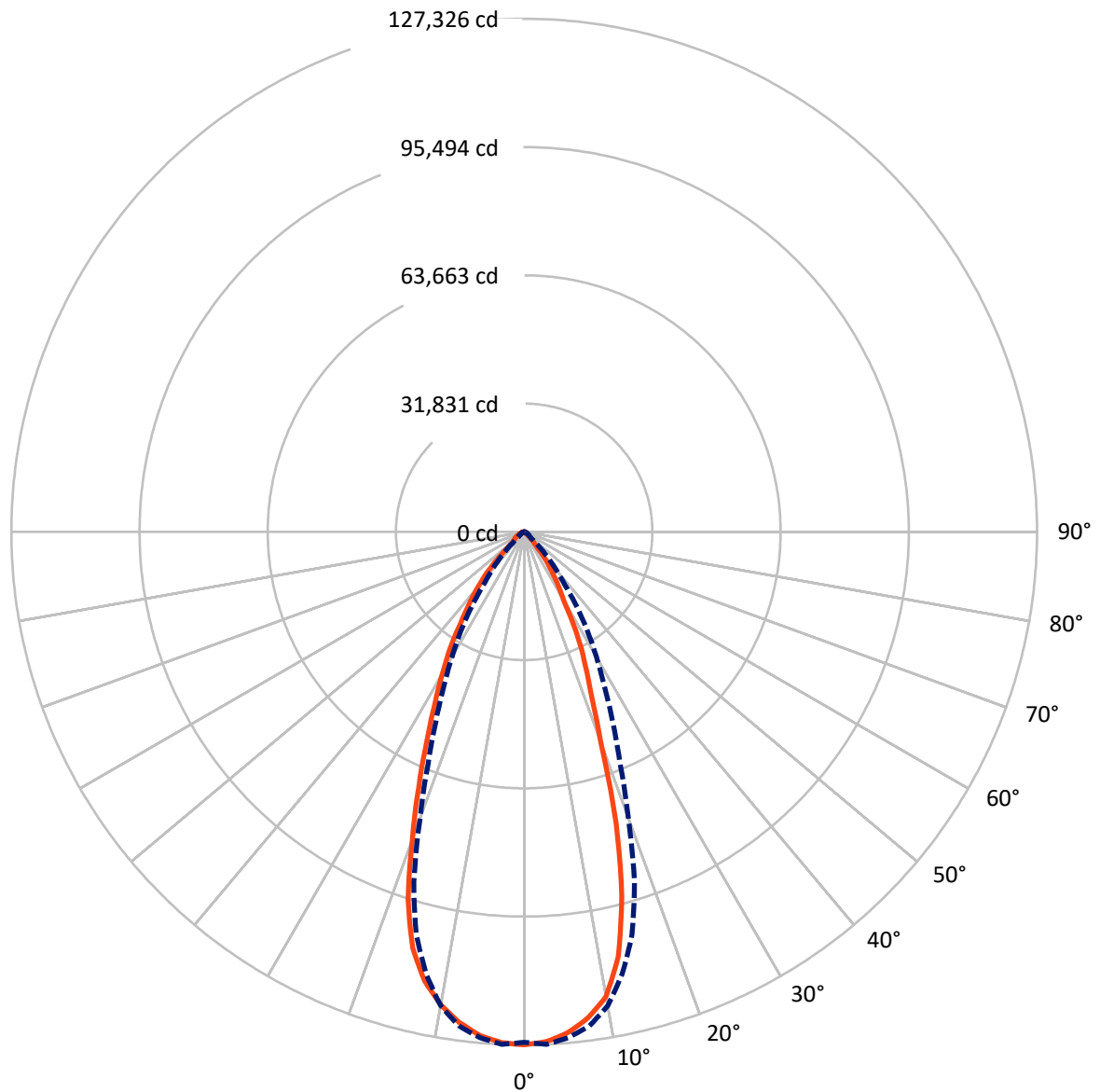
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### Lumen Table

90	0.3		1.2		2.1		2.8		3.2		2.8		2.1		1.2		0.3	
80	0.4		0.2	0.2	0.5	0.6	0.6	0.7	0.9	0.9	0.7	0.6	0.6	0.5	0.2	0.2	0.4	
70	0.4		0.4	0.7	1.2	1.2	0.9	1.1	1.2	1.2	1.1	0.9	1.2	1.2	0.7	0.4	0.4	
60	1.0		1.1	2.5	5.0	8.9	18.2	40.2	54.3	54.3	40.2	18.2	8.9	5.0	2.5	1.1	1.0	
50	1.0		2.5	8.2	16.8	42.6	126.5	234.4	345.3	345.3	234.4	126.5	42.6	16.8	8.2	2.5	1.0	
40	2.0		4.3	14.3	36.5	175.5	414.9	762.7	1047.2	1047.2	762.7	414.9	175.5	36.5	14.3	4.3	2.0	
30	2.0		5.9	19.1	82.5	383.3	947.6	1843.8	2635.1	2635.1	1843.8	947.6	383.3	82.5	19.1	5.9	2.0	
20	3.0		7.3	22.5	125.2	539.7	1376.1	2760.6	3662.1	3662.1	2760.6	1376.1	539.7	125.2	22.5	7.3	3.0	
10	3.0		8.2	25.1	133.5	581.5	1443.0	2928.7	3719.4	3719.4	2928.7	1443.0	581.5	133.5	25.1	8.2	3.0	
0	3.6		8.4	26.4	110.1	495.1	1205.9	2271.8	3067.5	3067.5	2271.8	1205.9	495.1	110.1	26.4	8.4	3.6	
-10	3.6		8.0	26.4	68.3	321.1	798.5	1327.8	1721.2	1721.2	1327.8	798.5	321.1	68.3	26.4	8.0	3.6	
-20	3.6		7.2	23.1	49.2	130.7	388.4	653.6	830.3	830.3	653.6	388.4	130.7	49.2	23.1	7.2	3.6	
-30	3.6		6.0	17.1	37.2	63.1	103.1	192.8	270.3	270.3	192.8	103.1	63.1	37.2	17.1	6.0	3.6	
-40	3.3		4.9	11.3	23.3	41.3	57.8	71.2	81.3	81.3	71.2	57.8	41.3	23.3	11.3	4.9	3.3	
-50	3.3		3.9	7.6	13.2	21.4	29.2	37.2	42.8	42.8	37.2	29.2	21.4	13.2	7.6	3.9	3.3	
-60	3.3		3.9	7.6	13.2	21.4	29.2	37.2	42.8	42.8	37.2	29.2	21.4	13.2	7.6	3.9	3.3	
-70	3.3		3.9	7.6	13.2	21.4	29.2	37.2	42.8	42.8	37.2	29.2	21.4	13.2	7.6	3.9	3.3	
-80	2.4		14.5		32.1		50.4		61.7		50.4		32.1		14.5		2.4	
-90	2.4		14.5		32.1		50.4		61.7		50.4		32.1		14.5		2.4	

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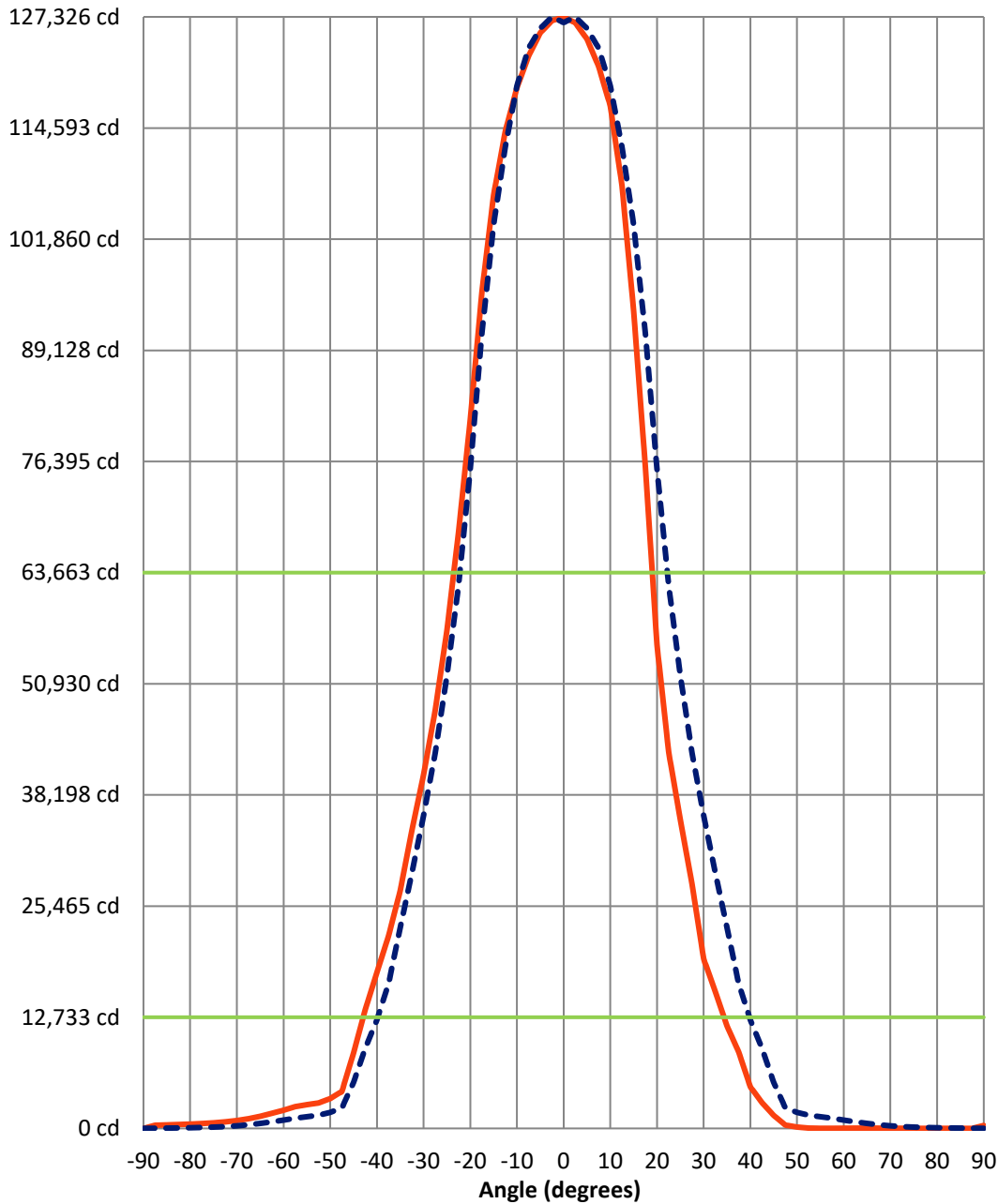
### Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg      - - - Horizontal Distribution Through 0-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 44.5°  
 V Angle: 42.5°  
 Lumens: 45523.3  
 Efficiency: 54.9%

**Field:**  
 H Angle: 79.6°  
 V Angle: 77.3°  
 Lumens: 76180.6  
 Efficiency: 91.9%

**Spill:**  
 Lumens: 6725.5  
 Efficiency: 8.1%

— Vertical Distribution through -2.5-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°	11.0	21.5	32.0	53.0	74.0	93.5	113.1	129.1	145.1	156.6	168.1
87.5°	11.0	10.2	9.3	9.3	9.3	9.4	9.5	9.1	8.7	8.6	8.4
85°	11.0	10.4	9.5	9.7	9.7	9.9	10.0	9.7	9.4	9.2	8.9
82.5°	11.0	10.7	9.8	10.0	10.0	10.3	10.5	10.3	10.1	9.8	9.3
80°	11.0	10.9	10.1	10.3	10.4	10.7	11.1	10.9	10.8	10.4	9.8
77.5°	11.0	11.1	10.4	10.6	10.8	11.2	11.6	11.6	11.5	11.0	10.3
75°	11.0	11.3	10.7	11.0	11.2	11.9	12.2	12.2	12.2	11.6	10.8
72.5°	11.0	11.6	11.0	11.3	11.9	12.6	12.8	12.8	12.7	12.0	11.3
70°	11.0	11.8	11.3	11.7	12.6	13.3	13.4	13.6	13.2	12.5	12.3
67.5°	11.0	12.0	11.7	12.3	13.3	14.0	14.3	14.4	13.9	13.7	13.4
65°	11.0	12.3	12.0	12.9	14.0	14.8	15.2	15.2	15.2	14.9	14.8
62.5°	11.0	12.5	12.4	13.5	14.8	15.7	16.1	16.5	16.7	16.5	17.3
60°	11.0	12.8	12.8	14.0	15.5	16.5	17.1	18.1	18.3	19.8	20.1
57.5°	11.0	13.0	13.4	14.6	16.5	17.4	19.0	19.8	22.5	24.0	25.6
55°	11.0	13.3	14.1	15.2	17.6	18.2	21.2	21.9	27.9	29.8	32.9
52.5°	11.0	13.5	14.9	15.8	18.7	19.4	23.6	27.5	33.9	38.8	41.2
50°	11.0	13.7	15.6	16.3	20.0	22.2	26.1	33.7	41.2	48.4	53.2
47.5°	11.0	14.0	16.4	17.0	21.3	25.1	29.3	39.9	50.5	58.5	66.7
45°	11.0	14.2	17.3	18.1	22.8	28.1	34.8	46.3	60.1	71.5	80.9
42.5°	11.0	14.5	18.1	19.2	24.3	31.3	40.4	54.1	70.0	85.1	102.5
40°	11.0	14.7	19.1	20.9	26.4	34.7	46.3	62.9	80.9	99.2	126.4
37.5°	11.0	15.0	20.0	22.9	29.0	38.2	52.6	71.9	93.6	116.0	151.6
35°	11.0	15.2	21.0	25.0	31.7	42.8	59.1	81.0	106.7	138.8	180.8
32.5°	11.0	15.5	22.0	27.0	34.4	47.9	66.0	90.6	120.1	162.0	214.0
30°	11.0	15.7	23.0	29.2	37.1	52.9	74.0	100.8	133.7	185.6	246.6
27.5°	11.0	15.9	24.1	31.3	40.8	57.9	81.9	111.8	149.0	209.5	278.6
25°	11.0	16.2	25.1	33.5	44.5	62.9	89.6	122.4	166.7	235.2	309.9
22.5°	11.0	16.4	26.2	35.7	48.1	67.9	97.1	132.5	183.5	257.3	342.9
20°	11.0	16.6	27.3	37.9	51.7	73.3	104.3	142.2	199.2	278.2	370.6
17.5°	11.0	16.8	28.3	40.1	55.1	78.6	111.5	151.4	213.8	297.9	396.7
15°	11.0	17.0	29.4	42.2	58.5	83.6	118.5	160.3	227.4	316.2	421.5
12.5°	11.0	17.2	30.4	44.3	61.7	88.3	125.0	169.0	241.0	333.0	444.7
10°	11.0	17.4	31.4	46.4	64.9	92.8	131.2	177.3	254.5	352.9	469.3
7.5°	11.0	17.6	32.4	48.4	67.9	97.1	136.8	184.9	267.0	372.2	498.6
5°	11.0	17.7	33.3	50.4	70.7	101.0	142.1	192.0	278.4	390.0	526.2
2.5°	11.0	17.9	34.2	52.2	73.4	104.7	146.8	198.4	288.5	406.1	551.6
0°	11.0	18.0	35.0	54.0	76.0	108.1	151.1	204.1	297.2	420.2	574.3
-2.5°	11.0	18.7	36.5	56.4	79.5	113.0	157.5	212.4	307.4	432.1	586.1
-5°	11.0	19.4	37.9	58.7	82.9	117.6	163.4	219.9	316.0	441.8	594.7
-7.5°	11.0	20.0	39.3	60.8	86.0	121.9	168.8	226.6	323.0	449.1	600.4
-10°	11.0	20.7	40.6	62.8	89.0	125.7	173.5	232.5	328.4	454.0	603.1
-12.5°	11.0	21.3	41.8	64.7	91.7	129.2	177.7	237.4	332.0	456.6	607.3
-15°	11.0	21.9	42.9	66.4	94.2	132.2	181.1	241.3	334.0	457.3	609.5
-17.5°	11.0	22.4	43.9	68.0	96.4	134.8	183.9	244.7	334.5	455.4	606.9
-20°	11.0	22.9	44.8	69.5	98.3	136.9	186.5	247.6	333.2	450.7	599.4



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 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-VHE

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	11.0	23.4	45.7	70.8	100.0	138.5	189.0	249.6	330.3	443.2	587.4
-25°	11.0	23.9	46.4	71.9	101.4	140.4	190.9	250.6	325.6	433.0	576.9
-27.5°	11.0	24.3	47.0	72.8	102.5	142.3	192.0	250.8	319.2	426.0	569.2
-30°	11.0	24.7	47.6	73.6	103.5	143.7	192.4	250.1	316.5	420.5	557.2
-32.5°	11.0	25.0	48.0	74.3	105.2	144.6	192.0	249.5	316.2	412.1	540.6
-35°	11.0	25.3	48.3	74.7	106.7	145.0	192.0	248.6	314.4	400.8	519.3
-37.5°	11.0	25.6	48.5	75.0	107.8	145.5	192.0	247.0	311.1	386.6	500.0
-40°	11.0	25.8	48.7	75.1	108.7	146.6	191.4	244.5	306.1	377.9	481.4
-42.5°	11.0	26.0	48.7	75.2	109.5	147.3	190.3	240.9	301.3	370.8	459.6
-45°	11.0	26.1	48.6	75.7	110.1	147.7	188.7	237.4	295.9	361.6	436.7
-47.5°	11.0	26.2	48.4	75.9	110.3	147.7	186.4	234.6	289.4	350.6	423.9
-50°	11.0	26.3	48.0	75.9	110.1	147.3	185.5	230.9	281.0	340.6	408.8
-52.5°	11.0	26.2	47.6	75.8	109.6	146.6	184.5	226.4	273.8	328.8	390.5
-55°	11.0	26.2	47.1	75.4	108.7	145.3	183.0	221.5	266.8	315.2	372.2
-57.5°	11.0	26.1	46.4	74.9	107.5	143.5	181.0	219.0	258.8	304.4	352.2
-60°	11.0	26.0	45.7	74.1	106.0	141.3	178.5	215.5	250.8	293.9	333.0
-62.5°	11.0	25.8	45.1	73.1	104.5	138.7	175.1	211.3	245.6	281.7	317.8
-65°	11.0	25.6	44.4	72.0	102.7	135.7	171.3	206.4	239.8	272.1	301.6
-67.5°	11.0	25.3	43.5	70.6	100.6	132.5	167.0	200.5	233.3	263.1	289.0
-70°	11.0	25.0	42.6	69.0	98.3	128.9	162.2	194.0	225.5	253.5	277.7
-72.5°	11.0	24.7	41.5	67.5	95.7	124.9	156.5	187.0	216.9	242.6	265.7
-75°	11.0	24.3	40.4	65.9	92.8	120.5	150.2	178.9	207.9	231.3	252.9
-77.5°	11.0	23.9	39.2	64.1	90.1	115.8	143.5	170.0	197.1	219.1	239.8
-80°	11.0	23.5	37.9	62.2	87.3	111.4	136.3	160.7	185.7	205.2	224.4
-82.5°	11.0	23.0	36.5	60.1	84.2	107.3	130.7	151.9	173.8	191.0	208.0
-85°	11.0	22.5	35.0	57.9	81.0	102.9	125.1	144.6	164.4	178.8	193.0
-87.5°	11.0	22.0	33.5	55.5	77.6	98.3	119.2	137.0	154.9	167.8	180.7
-90°	11.0	10.0	9.0	9.0	9.0	9.0	9.0	8.5	8.0	8.0	8.0





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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°	175.1	182.1	188.6	195.1	203.1	211.1	219.6	228.1	237.1	246.1	254.7
87.5°	8.0	7.5	7.5	7.6	7.1	6.6	6.3	6.0	5.5	5.0	4.9
85°	8.4	8.0	8.1	8.0	7.6	7.3	6.9	6.4	6.0	5.6	5.6
82.5°	9.1	9.0	8.7	8.1	7.9	7.9	7.5	7.0	6.6	6.3	6.2
80°	9.8	10.0	9.2	8.4	8.2	8.0	7.6	7.1	7.0	7.0	6.7
77.5°	10.2	10.1	9.5	9.0	8.6	8.3	8.0	7.7	7.4	7.1	7.0
75°	10.5	10.2	9.8	9.3	8.9	8.9	8.7	8.4	8.2	8.2	8.3
72.5°	11.1	10.8	10.3	9.5	9.2	9.5	9.5	9.2	9.4	9.8	9.8
70°	11.9	11.5	10.9	10.2	9.8	10.2	10.6	11.3	12.1	12.3	13.2
67.5°	12.9	12.5	11.6	11.0	10.8	11.4	12.0	14.5	16.8	18.1	19.5
65°	14.3	13.7	12.7	12.6	12.0	14.5	16.5	19.1	23.9	26.2	26.0
62.5°	16.1	16.3	15.1	15.4	17.4	19.6	23.2	28.7	34.2	36.4	34.5
60°	20.4	19.8	19.9	21.3	23.5	26.1	31.7	38.5	44.9	48.4	43.1
57.5°	26.2	26.0	27.5	28.4	31.3	32.2	39.6	48.0	53.6	57.7	50.9
55°	34.2	34.5	37.4	38.4	40.5	40.4	46.9	54.8	60.4	62.4	55.2
52.5°	45.5	46.0	51.3	52.0	51.3	52.0	54.3	62.8	67.6	67.7	61.4
50°	57.7	64.1	67.4	69.6	65.7	68.2	66.0	75.4	82.5	81.8	84.1
47.5°	76.0	84.6	89.4	92.9	90.0	97.4	95.8	110.3	115.3	142.8	147.1
45°	97.7	111.4	117.8	125.5	134.2	143.2	166.4	166.5	231.5	257.1	324.5
42.5°	121.9	142.5	160.2	163.3	206.5	231.6	263.3	328.4	391.9	471.7	502.1
40°	154.1	176.9	212.9	253.7	301.5	356.2	415.2	494.3	577.7	619.0	624.2
37.5°	189.7	232.7	282.9	356.7	430.3	502.0	576.9	654.2	714.3	729.6	785.6
35°	228.0	291.0	384.8	469.6	555.1	654.2	720.8	792.1	828.1	891.3	999.1
32.5°	276.2	350.8	467.4	577.7	672.8	780.6	844.4	899.0	983.6	1093.2	1331.2
30°	326.5	418.3	536.2	663.6	780.7	871.1	943.7	1012.2	1144.8	1409.5	2225.7
27.5°	368.3	476.3	600.3	742.2	875.9	958.4	1040.7	1160.2	1397.3	1942.6	3490.6
25°	405.9	523.1	663.1	827.9	958.7	1049.6	1156.7	1325.5	1697.3	3177.4	5161.1
22.5°	442.6	569.3	734.8	917.9	1042.8	1139.2	1301.5	1606.3	2385.5	4466.2	6850.4
20°	480.5	628.3	812.6	1001.5	1123.2	1218.6	1427.9	1879.0	3474.0	5853.6	8341.1
17.5°	520.1	687.8	888.4	1061.0	1174.8	1301.8	1561.3	2102.7	4382.8	7149.4	9933.8
15°	558.9	744.8	953.2	1112.3	1222.1	1391.7	1740.4	2762.5	5343.7	8596.4	11636.8
12.5°	596.0	796.7	1003.5	1152.5	1268.7	1475.4	1887.6	3489.3	6499.0	9939.8	13117.4
10°	631.0	843.1	1045.8	1190.6	1319.4	1564.8	2029.3	4200.8	7510.5	10812.9	14031.2
7.5°	667.0	881.8	1081.5	1226.9	1368.2	1649.0	2185.3	4753.6	8265.7	11484.5	14737.2
5°	699.5	911.5	1115.8	1267.5	1418.6	1723.7	2311.4	5176.2	8832.4	12039.4	15366.1
2.5°	728.0	934.9	1145.1	1305.8	1467.7	1786.2	2347.8	5293.7	9098.6	12337.9	15984.6
0°	752.4	952.6	1168.7	1339.8	1511.9	1837.1	2357.4	5273.1	9164.4	12428.4	16586.8
-2.5°	766.3	975.4	1211.0	1388.6	1551.5	1878.1	2407.3	5280.9	9220.1	13061.9	17361.3
-5°	776.0	992.4	1245.7	1431.9	1586.5	1907.0	2435.1	5160.9	9144.8	13395.3	17587.7
-7.5°	781.4	1003.2	1271.3	1467.9	1618.3	1927.9	2450.7	4965.7	9149.0	13410.5	17302.9
-10°	784.3	1013.4	1283.2	1488.1	1645.6	1937.9	2443.2	4630.4	8785.8	13047.5	16833.9
-12.5°	793.8	1022.9	1287.5	1503.1	1667.4	1940.2	2454.3	4302.3	8104.5	12386.7	16163.4
-15°	797.4	1025.4	1285.1	1515.4	1702.6	1963.9	2454.7	3792.6	7220.1	11548.1	15320.1
-17.5°	794.9	1020.7	1277.8	1533.3	1735.1	1965.9	2399.0	3124.2	6209.8	10355.2	14210.0
-20°	786.3	1010.1	1261.8	1542.1	1753.7	1982.2	2382.6	3015.6	5219.9	8863.7	12861.9



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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°	773.7	993.7	1238.9	1522.7	1774.9	2017.8	2360.3	2871.3	4055.7	7159.9	11193.1
-25°	758.7	975.6	1214.4	1500.3	1784.8	2040.6	2291.1	2678.5	3372.1	5702.0	9127.5
-27.5°	743.0	949.8	1188.3	1463.1	1778.8	2029.7	2250.3	2571.7	3061.8	4082.4	6975.4
-30°	723.1	918.9	1149.8	1414.9	1726.2	1996.3	2225.5	2433.4	2768.2	3381.5	5118.1
-32.5°	698.8	882.7	1107.0	1360.0	1646.7	1956.1	2168.1	2348.8	2603.8	2979.6	3692.1
-35°	671.4	850.7	1059.4	1290.7	1552.5	1855.3	2081.8	2272.9	2445.2	2734.5	3190.1
-37.5°	643.4	811.2	998.0	1217.4	1466.7	1713.9	1981.2	2171.6	2345.2	2526.8	2851.3
-40°	610.7	762.1	937.1	1140.0	1351.3	1575.7	1823.6	2062.2	2233.7	2422.9	2617.5
-42.5°	574.9	715.5	871.9	1047.8	1237.5	1439.2	1659.2	1898.2	2128.0	2309.0	2487.8
-45°	546.0	665.2	802.5	959.1	1122.4	1301.8	1502.5	1711.9	1955.9	2190.1	2355.5
-47.5°	511.1	615.0	741.6	865.8	1013.6	1173.7	1345.1	1543.4	1748.0	1978.7	2204.9
-50°	477.7	573.0	670.3	782.4	907.7	1048.4	1201.2	1375.9	1565.1	1754.1	1959.3
-52.5°	454.9	527.7	610.7	699.0	808.6	929.2	1064.6	1212.9	1378.7	1543.9	1721.8
-55°	429.8	492.8	552.4	627.3	713.5	818.1	935.6	1065.2	1191.7	1342.4	1493.5
-57.5°	405.3	457.6	505.5	562.9	634.9	711.7	818.5	926.4	1036.2	1153.0	1280.7
-60°	380.5	423.4	465.2	511.6	564.1	632.1	706.4	796.5	886.3	979.6	1092.6
-62.5°	355.7	390.6	426.5	466.6	511.2	557.1	617.8	683.5	746.4	831.3	921.4
-65°	335.8	359.8	389.5	424.7	460.7	502.7	545.0	586.2	641.4	705.8	771.1
-67.5°	314.4	336.9	358.7	383.4	416.0	450.7	485.6	522.5	559.9	604.2	651.9
-70°	298.8	314.7	334.1	354.5	375.9	401.0	432.1	462.7	494.2	531.2	569.1
-72.5°	284.0	298.7	313.2	327.5	346.7	367.5	388.1	408.6	434.8	466.3	496.6
-75°	268.9	282.4	295.6	308.7	323.1	338.7	354.8	373.3	393.7	415.6	436.6
-77.5°	253.4	265.4	277.5	289.5	302.7	316.5	330.6	344.7	360.8	377.7	394.0
-80°	236.9	248.0	258.9	269.6	281.6	293.8	306.4	319.0	333.2	347.8	361.4
-82.5°	218.6	228.5	238.7	248.6	259.7	270.7	281.8	293.0	305.4	318.1	329.7
-85°	201.2	208.9	217.8	226.6	236.6	246.6	256.6	266.5	278.0	289.5	299.5
-87.5°	188.2	195.5	202.8	209.9	218.5	227.1	235.7	244.3	254.4	264.5	273.2
-90°	7.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	5.5	5.0	4.5



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	263.2	268.7	274.2	278.7	283.2	289.2	295.2	303.2	311.2	319.2	327.2
87.5°	4.8	4.4	4.0	3.9	3.9	3.9	3.9	3.5	3.0	3.0	3.0
85°	5.6	5.5	5.5	5.2	4.8	4.8	4.9	4.9	4.9	4.4	4.0
82.5°	6.0	6.0	6.0	5.5	5.0	5.0	5.0	5.0	5.0	4.5	4.0
80°	6.3	6.2	6.0	5.8	5.6	5.4	5.0	4.6	4.2	4.1	4.0
77.5°	7.1	6.8	6.4	6.3	6.1	5.6	5.1	4.6	4.1	4.0	4.0
75°	8.1	7.8	7.5	7.2	6.6	6.4	6.3	6.0	5.7	5.7	5.8
72.5°	9.7	9.5	9.5	9.8	9.7	10.0	10.5	10.9	11.3	12.1	13.0
70°	14.4	15.4	15.8	16.1	16.1	15.9	15.8	16.1	16.6	17.1	17.5
67.5°	21.1	22.6	23.5	23.9	22.3	21.4	21.5	21.9	22.7	24.1	26.1
65°	27.5	27.1	26.3	25.8	26.0	26.1	26.0	26.3	27.6	29.7	32.3
62.5°	32.3	27.9	25.3	24.1	24.9	26.5	25.4	24.6	25.7	27.0	28.3
60°	36.9	28.8	23.1	21.3	21.0	21.6	19.9	18.3	18.8	19.2	19.9
57.5°	41.3	30.8	21.4	18.2	15.3	13.8	13.3	12.8	12.4	12.2	12.2
55°	45.2	33.6	21.0	18.6	16.5	16.1	14.7	14.0	13.4	13.2	13.5
52.5°	50.1	43.2	34.4	32.0	36.0	36.3	32.2	38.2	42.8	44.9	45.8
50°	82.1	73.5	88.2	86.9	104.1	116.3	112.0	125.6	145.8	158.5	163.7
47.5°	180.3	180.6	209.7	235.6	256.9	284.8	306.3	327.0	355.8	373.7	381.8
45°	342.1	371.2	401.6	445.9	488.4	540.1	602.3	651.2	847.4	1042.9	1220.8
42.5°	523.7	555.6	600.1	696.6	811.1	1076.5	1550.8	1815.6	2146.1	2505.7	2643.8
40°	674.8	721.1	843.4	1114.9	1776.2	2405.9	3097.6	3682.5	4200.2	4498.1	4747.0
37.5°	861.5	972.2	1528.8	2297.4	3119.6	3908.8	4621.1	5239.2	5775.7	6210.8	6641.5
35°	1133.5	1868.7	2691.0	3690.4	4564.4	5295.5	6033.5	6741.8	7350.2	8000.2	8965.9
32.5°	2148.7	3109.7	4167.5	5063.2	5917.4	6839.9	7615.4	8748.7	9636.2	10821.1	12632.0
30°	3448.9	4654.9	5614.0	6510.0	7605.4	8846.6	10141.6	11874.9	13686.2	15575.6	17520.1
27.5°	5118.2	6336.3	7347.5	8542.6	9988.9	11640.7	14116.5	16559.8	19157.3	21520.1	23315.9
25°	7130.3	8420.3	10148.8	11882.8	13952.5	16775.5	19556.9	22550.5	25154.8	27473.6	30069.2
22.5°	9016.1	11130.7	13413.2	16031.1	19401.5	22585.3	26024.3	29053.8	32322.1	35626.9	38182.8
20°	10608.1	13362.9	16637.2	20411.1	24147.0	27753.6	31755.6	36584.5	41450.2	45797.1	48951.6
17.5°	12755.6	16244.5	20320.2	24806.0	28828.0	33297.4	38867.4	45141.6	51959.6	57992.1	62775.4
15°	15102.1	19176.1	23784.6	28484.8	33573.2	39562.1	46724.3	54737.1	63076.9	71535.9	79416.5
12.5°	16697.3	21470.4	26502.9	32091.5	38438.2	46467.9	55164.8	64047.4	73578.0	84103.0	93244.6
10°	18061.0	23356.3	29427.7	35928.4	43221.2	51852.8	60841.4	71630.5	83526.8	93891.4	103683.0
7.5°	19409.8	25632.1	31974.3	38742.9	46755.2	56130.4	66768.4	78371.8	90478.6	101744.2	109751.4
5°	21005.9	27461.3	33803.1	40953.0	49343.7	59095.6	70316.3	83640.8	96396.6	106751.9	113974.1
2.5°	22325.7	28558.6	35052.3	42128.9	50752.4	60934.2	73112.5	87919.9	101008.6	110691.1	117226.3
0°	22997.6	29261.4	35838.3	43029.5	51869.8	62258.9	75545.8	91101.1	103471.4	112416.2	119414.9
-2.5°	23079.6	29037.9	35493.6	42586.3	51226.3	61821.6	75442.8	91181.8	104112.4	113409.3	120314.3
-5°	22841.0	28743.6	35187.0	42283.9	50807.1	61843.4	75520.0	90654.2	103148.9	112778.8	119281.7
-7.5°	22265.8	28203.2	34658.4	41650.9	50040.1	60743.6	73499.5	87217.7	100069.7	110474.6	116473.5
-10°	21423.1	27256.9	33612.6	40306.3	48217.9	58113.9	69521.7	82080.8	95068.0	105016.5	111934.5
-12.5°	20357.2	25878.5	31954.1	38282.5	45752.0	54971.9	65140.7	75657.1	86543.8	97885.8	105091.3
-15°	19133.5	24178.7	29865.9	36228.2	43613.0	51296.7	59374.2	67942.1	77894.3	87171.7	95559.2
-17.5°	17972.5	22317.7	27624.1	33823.0	40111.4	46787.8	53710.4	60705.5	68686.2	75968.8	82483.6
-20°	16513.3	20213.2	25102.4	30610.4	36453.8	42238.7	48184.8	53852.0	59645.8	65573.5	70747.5



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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°	14793.5	18391.6	22470.8	27266.7	32876.5	38025.1	42787.5	47216.4	51860.3	55961.9	60220.0
-25°	12920.0	16379.5	20128.1	24500.0	28807.3	33474.8	37427.4	41193.9	44796.0	48016.6	51327.8
-27.5°	10619.3	14271.4	17966.5	21465.6	25019.9	28371.3	32056.5	35531.5	38535.6	41192.5	43816.8
-30°	8027.3	11903.7	15399.1	18400.7	21218.5	24013.7	26835.1	29751.0	32594.8	35014.3	37163.7
-32.5°	5922.7	9156.4	12387.3	15328.7	17794.9	20105.1	22299.2	24587.1	26576.1	28618.4	30606.2
-35°	3918.6	6204.1	8886.3	11876.6	14445.1	16388.6	18378.1	20202.1	21701.5	23284.8	24785.4
-37.5°	3297.8	3906.0	5700.3	8128.0	10506.9	12741.8	14725.8	16311.6	17691.6	18956.3	20252.3
-40°	2909.0	3256.0	3766.5	4648.5	6649.2	8615.2	10659.2	12344.8	13815.0	15027.4	16220.6
-42.5°	2653.9	2892.0	3146.3	3493.6	3836.0	4799.0	6476.8	7931.7	9310.6	10676.5	11905.9
-45°	2521.7	2655.3	2800.8	2989.6	3136.1	3397.0	3688.5	3962.3	5059.7	6245.7	7238.4
-47.5°	2363.1	2505.6	2614.3	2703.2	2774.5	2889.1	3010.2	3168.6	3422.7	3722.3	3950.9
-50°	2160.4	2333.4	2441.9	2531.0	2582.2	2626.5	2670.2	2769.4	2907.1	3070.4	3200.0
-52.5°	1898.3	2069.4	2223.1	2339.1	2395.6	2450.7	2505.6	2573.8	2652.1	2746.4	2814.1
-55°	1651.3	1794.3	1927.2	2035.4	2132.9	2221.7	2307.2	2379.4	2463.9	2553.6	2616.7
-57.5°	1416.9	1532.3	1641.4	1735.1	1819.5	1894.2	1981.5	2076.5	2184.5	2287.3	2359.7
-60°	1197.8	1289.6	1380.3	1456.3	1525.0	1586.3	1667.1	1746.7	1841.4	1925.6	1987.0
-62.5°	1001.8	1082.0	1149.0	1206.5	1258.3	1309.5	1377.4	1444.1	1521.9	1589.2	1640.2
-65°	832.4	899.2	946.4	989.1	1026.6	1070.3	1122.8	1176.2	1237.4	1289.7	1331.6
-67.5°	701.7	747.0	776.7	803.0	834.1	868.9	908.6	951.2	998.8	1038.4	1070.4
-70°	602.9	631.2	649.2	668.8	691.5	715.6	742.5	774.6	810.8	841.6	868.2
-72.5°	524.7	546.3	561.2	576.4	590.1	606.5	624.6	648.6	675.3	699.4	721.9
-75°	457.0	472.4	486.3	499.5	511.4	525.3	539.7	560.0	581.9	601.8	620.5
-77.5°	411.4	423.3	432.6	441.4	450.1	461.7	473.6	489.9	506.9	523.4	539.3
-80°	374.9	384.1	391.9	398.4	404.3	414.2	424.4	437.8	451.4	465.6	479.7
-82.5°	341.1	349.2	356.6	362.8	368.5	377.4	386.5	398.4	410.4	422.3	434.0
-85°	309.5	316.8	323.9	329.7	335.5	342.7	349.8	360.1	370.5	381.2	391.9
-87.5°	282.0	288.9	295.8	300.4	304.9	311.3	317.7	326.5	335.3	344.5	353.8
-90°	4.0	4.0	4.0	3.5	3.0	3.0	3.0	2.5	2.0	2.0	2.0



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	331.2	335.2	337.2	339.2	337.2	335.2	331.2	327.2	319.2	311.2	303.2
87.5°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.0	3.0	3.5
85°	3.5	3.0	3.5	4.0	3.5	3.0	3.5	4.0	4.4	4.9	4.9
82.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5	5.0	5.0
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.1	4.2	4.6
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.1	4.6
75°	5.5	5.0	5.0	5.0	5.0	5.0	5.5	5.8	5.7	5.7	6.0
72.5°	13.5	13.8	14.4	15.0	14.4	13.8	13.5	13.0	12.1	11.3	10.9
70°	17.7	17.9	18.0	18.0	18.0	17.9	17.7	17.5	17.1	16.6	16.1
67.5°	27.2	27.6	28.8	30.0	28.8	27.6	27.2	26.1	24.1	22.7	21.9
65°	34.1	35.5	35.9	36.0	35.9	35.5	34.1	32.3	29.7	27.6	26.3
62.5°	29.5	30.9	31.1	31.0	31.1	30.9	29.5	28.3	27.0	25.7	24.6
60°	20.6	21.2	21.5	22.0	21.5	21.2	20.6	19.9	19.2	18.8	18.3
57.5°	12.4	13.1	13.1	13.0	13.1	13.1	12.4	12.2	12.2	12.4	12.8
55°	13.6	13.9	13.6	13.0	13.6	13.9	13.6	13.5	13.2	13.4	14.0
52.5°	44.6	42.3	40.1	38.0	40.1	42.3	44.6	45.8	44.9	42.8	38.2
50°	162.0	159.3	155.5	151.1	155.5	159.3	162.0	163.7	158.5	145.8	125.6
47.5°	389.1	389.9	386.1	379.2	386.1	389.9	389.1	381.8	373.7	355.8	327.0
45°	1375.7	1450.6	1490.9	1518.9	1490.9	1450.6	1375.7	1220.8	1042.9	847.4	651.2
42.5°	2764.6	2869.6	2949.3	2965.8	2949.3	2869.6	2764.6	2643.8	2505.7	2146.1	1815.6
40°	5042.2	5059.7	4767.1	4325.6	4767.1	5059.7	5042.2	4747.0	4498.1	4200.2	3682.5
37.5°	7154.8	7893.0	8750.7	9188.5	8750.7	7893.0	7154.8	6641.5	6210.8	5775.7	5239.2
35°	10268.9	11379.4	11739.6	11749.0	11739.6	11379.4	10268.9	8965.9	8000.2	7350.2	6741.8
32.5°	14265.1	15168.0	15650.1	15519.2	15650.1	15168.0	14265.1	12632.0	10821.1	9636.2	8748.7
30°	18653.3	19438.8	19445.1	19182.4	19445.1	19438.8	18653.3	17520.1	15575.6	13686.2	11874.9
27.5°	25174.6	26834.6	28002.9	28317.8	28002.9	26834.6	25174.6	23315.9	21520.1	19157.3	16559.8
25°	32408.0	34232.2	35353.8	35762.2	35353.8	34232.2	32408.0	30069.2	27473.6	25154.8	22550.5
22.5°	40561.6	42335.2	43144.6	43567.9	43144.6	42335.2	40561.6	38182.8	35626.9	32322.1	29053.8
20°	51958.6	54480.3	55430.9	55837.1	55430.9	54480.3	51958.6	48951.6	45797.1	41450.2	36584.5
17.5°	67745.5	72725.8	75839.7	77439.0	75839.7	72725.8	67745.5	62775.4	57992.1	51959.6	45141.6
15°	85248.9	90304.9	93629.9	95623.7	93629.9	90304.9	85248.9	79416.5	71535.9	63076.9	54737.1
12.5°	100264.8	104771.9	107983.5	109892.8	107983.5	104771.9	100264.8	93244.6	84103.0	73578.0	64047.4
10°	109897.9	113763.3	117095.2	118722.5	117095.2	113763.3	109897.9	103683.0	93891.4	83526.8	71630.5
7.5°	115342.3	119836.8	121643.0	122755.9	121643.0	119836.8	115342.3	109751.4	101744.2	90478.6	78371.8
5°	119561.8	123113.6	124780.9	125594.5	124780.9	123113.6	119561.8	113974.1	106751.9	96396.6	83640.8
2.5°	122378.6	125462.0	126641.1	127297.5	126641.1	125462.0	122378.6	117226.3	110691.1	101008.6	87919.9
0°	123730.4	126003.8	127325.6	126681.2	127325.6	126003.8	123730.4	119414.9	112416.2	103471.4	91101.1
-2.5°	123739.9	125900.7	126883.3	126405.0	126883.3	125900.7	123739.9	120314.3	113409.3	104112.4	91181.8
-5°	122681.2	124293.9	125490.7	125107.2	125490.7	124293.9	122681.2	119281.7	112778.8	103148.9	90654.2
-7.5°	119826.3	121969.7	122846.3	122888.9	122846.3	121969.7	119826.3	116473.5	110474.6	100069.7	87217.7
-10°	115898.9	118275.3	119208.5	119303.8	119208.5	118275.3	115898.9	111934.5	105016.5	95068.0	82080.8
-12.5°	110061.8	112849.5	114192.6	114431.9	114192.6	112849.5	110061.8	105091.3	97885.8	86543.8	75657.1
-15°	101000.5	104757.8	106878.7	107622.9	106878.7	104757.8	101000.5	95559.2	87171.7	77894.3	67942.1
-17.5°	88682.0	93171.3	95815.9	96748.4	95815.9	93171.3	88682.0	82483.6	75968.8	68686.2	60705.5
-20°	75832.8	79160.9	81199.6	82039.7	81199.6	79160.9	75832.8	70747.5	65573.5	59645.8	53852.0



REPORT NUMBER: P731469 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	64145.1	66828.4	68343.2	69016.0	68343.2	66828.4	64145.1	60220.0	55961.9	51860.3	47216.4
-25°	54008.2	56268.3	57045.1	57483.1	57045.1	56268.3	54008.2	51327.8	48016.6	44796.0	41193.9
-27.5°	45725.8	47518.7	47937.0	48323.7	47937.0	47518.7	45725.8	43816.8	41192.5	38535.6	35531.5
-30°	38746.7	40306.9	40520.3	40948.3	40520.3	40306.9	38746.7	37163.7	35014.3	32594.8	29751.0
-32.5°	32220.0	33609.3	34141.5	34223.3	34141.5	33609.3	32220.0	30606.2	28618.4	26576.1	24587.1
-35°	25970.2	26885.8	27248.1	27270.2	27248.1	26885.8	25970.2	24785.4	23284.8	21701.5	20202.1
-37.5°	21056.3	21640.0	22059.6	21944.0	22059.6	21640.0	21056.3	20252.3	18956.3	17691.6	16311.6
-40°	16889.2	17476.4	17859.9	17766.5	17859.9	17476.4	16889.2	16220.6	15027.4	13815.0	12344.8
-42.5°	12584.0	13229.8	13592.3	13492.0	13592.3	13229.8	12584.0	11905.9	10676.5	9310.6	7931.7
-45°	7804.3	8373.5	8640.6	8478.0	8640.6	8373.5	7804.3	7238.4	6245.7	5059.7	3962.3
-47.5°	4071.5	4201.0	4242.4	4184.5	4242.4	4201.0	4071.5	3950.9	3722.3	3422.7	3168.6
-50°	3301.1	3382.4	3417.3	3407.0	3417.3	3382.4	3301.1	3200.0	3070.4	2907.1	2769.4
-52.5°	2867.2	2904.7	2917.1	2909.7	2917.1	2904.7	2867.2	2814.1	2746.4	2652.1	2573.8
-55°	2670.0	2707.2	2720.1	2715.6	2720.1	2707.2	2670.0	2616.7	2553.6	2463.9	2379.4
-57.5°	2419.8	2465.6	2493.9	2508.5	2493.9	2465.6	2419.8	2359.7	2287.3	2184.5	2076.5
-60°	2036.4	2073.1	2083.6	2078.2	2083.6	2073.1	2036.4	1987.0	1925.6	1841.4	1746.7
-62.5°	1680.3	1710.4	1732.8	1748.0	1732.8	1710.4	1680.3	1640.2	1589.2	1521.9	1444.1
-65°	1362.3	1384.0	1388.6	1384.8	1388.6	1384.0	1362.3	1331.6	1289.7	1237.4	1176.2
-67.5°	1092.9	1109.0	1111.2	1107.7	1111.2	1109.0	1092.9	1070.4	1038.4	998.8	951.2
-70°	886.0	899.6	901.5	899.5	901.5	899.6	886.0	868.2	841.6	810.8	774.6
-72.5°	734.9	744.8	752.4	758.5	752.4	744.8	734.9	721.9	699.4	675.3	648.6
-75°	630.0	637.1	638.9	639.4	638.9	637.1	630.0	620.5	601.8	581.9	560.0
-77.5°	547.7	554.8	559.9	564.3	559.9	554.8	547.7	539.3	523.4	506.9	489.9
-80°	486.0	491.5	495.6	499.3	495.6	491.5	486.0	479.7	465.6	451.4	437.8
-82.5°	440.0	445.7	449.1	452.3	449.1	445.7	440.0	434.0	422.3	410.4	398.4
-85°	396.5	400.9	404.1	407.2	404.1	400.9	396.5	391.9	381.2	370.5	360.1
-87.5°	358.0	362.1	364.2	366.2	364.2	362.1	358.0	353.8	344.5	335.3	326.5
-90°	1.5	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.0	2.0	2.5





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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	295.2	289.2	283.2	278.7	274.2	268.7	263.2	254.7	246.1	237.1	228.1
87.5°	3.9	3.9	3.9	3.9	4.0	4.4	4.8	4.9	5.0	5.5	6.0
85°	4.9	4.8	4.8	5.2	5.5	5.5	5.6	5.6	5.6	6.0	6.4
82.5°	5.0	5.0	5.0	5.5	6.0	6.0	6.0	6.2	6.3	6.6	7.0
80°	5.0	5.4	5.6	5.8	6.0	6.2	6.3	6.7	7.0	7.0	7.1
77.5°	5.1	5.6	6.1	6.3	6.4	6.8	7.1	7.0	7.1	7.4	7.7
75°	6.3	6.4	6.6	7.2	7.5	7.8	8.1	8.3	8.2	8.2	8.4
72.5°	10.5	10.0	9.7	9.8	9.5	9.5	9.7	9.8	9.8	9.4	9.2
70°	15.8	15.9	16.1	16.1	15.8	15.4	14.4	13.2	12.3	12.1	11.3
67.5°	21.5	21.4	22.3	23.9	23.5	22.6	21.1	19.5	18.1	16.8	14.5
65°	26.0	26.1	26.0	25.8	26.3	27.1	27.5	26.0	26.2	23.9	19.1
62.5°	25.4	26.5	24.9	24.1	25.3	27.9	32.3	34.5	36.4	34.2	28.7
60°	19.9	21.6	21.0	21.3	23.1	28.8	36.9	43.1	48.4	44.9	38.5
57.5°	13.3	13.8	15.3	18.2	21.4	30.8	41.3	50.9	57.7	53.6	48.0
55°	14.7	16.1	16.5	18.6	21.0	33.6	45.2	55.2	62.4	60.4	54.8
52.5°	32.2	36.3	36.0	32.0	34.4	43.2	50.1	61.4	67.7	67.6	62.8
50°	112.0	116.3	104.1	86.9	88.2	73.5	82.1	84.1	81.8	82.5	75.4
47.5°	306.3	284.8	256.9	235.6	209.7	180.6	180.3	147.1	142.8	115.3	110.3
45°	602.3	540.1	488.4	445.9	401.6	371.2	342.1	324.5	257.1	231.5	166.5
42.5°	1550.8	1076.5	811.1	696.6	600.1	555.6	523.7	502.1	471.7	391.9	328.4
40°	3097.6	2405.9	1776.2	1114.9	843.4	721.1	674.8	624.2	619.0	577.7	494.3
37.5°	4621.1	3908.8	3119.6	2297.4	1528.8	972.2	861.5	785.6	729.6	714.3	654.2
35°	6033.5	5295.5	4564.4	3690.4	2691.0	1868.7	1133.5	999.1	891.3	828.1	792.1
32.5°	7615.4	6839.9	5917.4	5063.2	4167.5	3109.7	2148.7	1331.2	1093.2	983.6	899.0
30°	10141.6	8846.6	7605.4	6510.0	5614.0	4654.9	3448.9	2225.7	1409.5	1144.8	1012.2
27.5°	14116.5	11640.7	9988.9	8542.6	7347.5	6336.3	5118.2	3490.6	1942.6	1397.3	1160.2
25°	19556.9	16775.5	13952.5	11882.8	10148.8	8420.3	7130.3	5161.1	3177.4	1697.3	1325.5
22.5°	26024.3	22585.3	19401.5	16031.1	13413.2	11130.7	9016.1	6850.4	4466.2	2385.5	1606.3
20°	31755.6	27753.6	24147.0	20411.1	16637.2	13362.9	10608.1	8341.1	5853.6	3474.0	1879.0
17.5°	38867.4	33297.4	28828.0	24806.0	20320.2	16244.5	12755.6	9933.8	7149.4	4382.8	2102.7
15°	46724.3	39562.1	33573.2	28484.8	23784.6	19176.1	15102.1	11636.8	8596.4	5343.7	2762.5
12.5°	55164.8	46467.9	38438.2	32091.5	26502.9	21470.4	16697.3	13117.4	9939.8	6499.0	3489.3
10°	60841.4	51852.8	43221.2	35928.4	29427.7	23356.3	18061.0	14031.2	10812.9	7510.5	4200.8
7.5°	66768.4	56130.4	46755.2	38742.9	31974.3	25632.1	19409.8	14737.2	11484.5	8265.7	4753.6
5°	70316.3	59095.6	49343.7	40953.0	33803.1	27461.3	21005.9	15366.1	12039.4	8832.4	5176.2
2.5°	73112.5	60934.2	50752.4	42128.9	35052.3	28558.6	22325.7	15984.6	12337.9	9098.6	5293.7
0°	75545.8	62258.9	51869.8	43029.5	35838.3	29261.4	22997.6	16586.8	12428.4	9164.4	5273.1
-2.5°	75442.8	61821.6	51226.3	42586.3	35493.6	29037.9	23079.6	17361.3	13061.9	9220.1	5280.9
-5°	75520.0	61843.4	50807.1	42283.9	35187.0	28743.6	22841.0	17587.7	13395.3	9144.8	5160.9
-7.5°	73499.5	60743.6	50040.1	41650.9	34658.4	28203.2	22265.8	17302.9	13410.5	9149.0	4965.7
-10°	69521.7	58113.9	48217.9	40306.3	33612.6	27256.9	21423.1	16833.9	13047.5	8785.8	4630.4
-12.5°	65140.7	54971.9	45752.0	38282.5	31954.1	25878.5	20357.2	16163.4	12386.7	8104.5	4302.3
-15°	59374.2	51296.7	43613.0	36228.2	29865.9	24178.7	19133.5	15320.1	11548.1	7220.1	3792.6
-17.5°	53710.4	46787.8	40111.4	33823.0	27624.1	22317.7	17972.5	14210.0	10355.2	6209.8	3124.2
-20°	48184.8	42238.7	36453.8	30610.4	25102.4	20213.2	16513.3	12861.9	8863.7	5219.9	3015.6



REPORT NUMBER: P731469 (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°	42787.5	38025.1	32876.5	27266.7	22470.8	18391.6	14793.5	11193.1	7159.9	4055.7	2871.3
-25°	37427.4	33474.8	28807.3	24500.0	20128.1	16379.5	12920.0	9127.5	5702.0	3372.1	2678.5
-27.5°	32056.5	28371.3	25019.9	21465.6	17966.5	14271.4	10619.3	6975.4	4082.4	3061.8	2571.7
-30°	26835.1	24013.7	21218.5	18400.7	15399.1	11903.7	8027.3	5118.1	3381.5	2768.2	2433.4
-32.5°	22299.2	20105.1	17794.9	15328.7	12387.3	9156.4	5922.7	3692.1	2979.6	2603.8	2348.8
-35°	18378.1	16388.6	14445.1	11876.6	8886.3	6204.1	3918.6	3190.1	2734.5	2445.2	2272.9
-37.5°	14725.8	12741.8	10506.9	8128.0	5700.3	3906.0	3297.8	2851.3	2526.8	2345.2	2171.6
-40°	10659.2	8615.2	6649.2	4648.5	3766.5	3256.0	2909.0	2617.5	2422.9	2233.7	2062.2
-42.5°	6476.8	4799.0	3836.0	3493.6	3146.3	2892.0	2653.9	2487.8	2309.0	2128.0	1898.2
-45°	3688.5	3397.0	3136.1	2989.6	2800.8	2655.3	2521.7	2355.5	2190.1	1955.9	1711.9
-47.5°	3010.2	2889.1	2774.5	2703.2	2614.3	2505.6	2363.1	2204.9	1978.7	1748.0	1543.4
-50°	2670.2	2626.5	2582.2	2531.0	2441.9	2333.4	2160.4	1959.3	1754.1	1565.1	1375.9
-52.5°	2505.6	2450.7	2395.6	2339.1	2223.1	2069.4	1898.3	1721.8	1543.9	1378.7	1212.9
-55°	2307.2	2221.7	2132.9	2035.4	1927.2	1794.3	1651.3	1493.5	1342.4	1191.7	1065.2
-57.5°	1981.5	1894.2	1819.5	1735.1	1641.4	1532.3	1416.9	1280.7	1153.0	1036.2	926.4
-60°	1667.1	1586.3	1525.0	1456.3	1380.3	1289.6	1197.8	1092.6	979.6	886.3	796.5
-62.5°	1377.4	1309.5	1258.3	1206.5	1149.0	1082.0	1001.8	921.4	831.3	746.4	683.5
-65°	1122.8	1070.3	1026.6	989.1	946.4	899.2	832.4	771.1	705.8	641.4	586.2
-67.5°	908.6	868.9	834.1	803.0	776.7	747.0	701.7	651.9	604.2	559.9	522.5
-70°	742.5	715.6	691.5	668.8	649.2	631.2	602.9	569.1	531.2	494.2	462.7
-72.5°	624.6	606.5	590.1	576.4	561.2	546.3	524.7	496.6	466.3	434.8	408.6
-75°	539.7	525.3	511.4	499.5	486.3	472.4	457.0	436.6	415.6	393.7	373.3
-77.5°	473.6	461.7	450.1	441.4	432.6	423.3	411.4	394.0	377.7	360.8	344.7
-80°	424.4	414.2	404.3	398.4	391.9	384.1	374.9	361.4	347.8	333.2	319.0
-82.5°	386.5	377.4	368.5	362.8	356.6	349.2	341.1	329.7	318.1	305.4	293.0
-85°	349.8	342.7	335.5	329.7	323.9	316.8	309.5	299.5	289.5	278.0	266.5
-87.5°	317.7	311.3	304.9	300.4	295.8	288.9	282.0	273.2	264.5	254.4	244.3
-90°	3.0	3.0	3.0	3.5	4.0	4.0	4.0	4.5	5.0	5.5	6.0





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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°	219.6	211.1	203.1	195.1	188.6	182.1	175.1	168.1	156.6	145.1	129.1
87.5°	6.3	6.6	7.1	7.6	7.5	7.5	8.0	8.4	8.6	8.7	9.1
85°	6.9	7.3	7.6	8.0	8.1	8.0	8.4	8.9	9.2	9.4	9.7
82.5°	7.5	7.9	7.9	8.1	8.7	9.0	9.1	9.3	9.8	10.1	10.3
80°	7.6	8.0	8.2	8.4	9.2	10.0	9.8	9.8	10.4	10.8	10.9
77.5°	8.0	8.3	8.6	9.0	9.5	10.1	10.2	10.3	11.0	11.5	11.6
75°	8.7	8.9	8.9	9.3	9.8	10.2	10.5	10.8	11.6	12.2	12.2
72.5°	9.5	9.5	9.2	9.5	10.3	10.8	11.1	11.3	12.0	12.7	12.8
70°	10.6	10.2	9.8	10.2	10.9	11.5	11.9	12.3	12.5	13.2	13.6
67.5°	12.0	11.4	10.8	11.0	11.6	12.5	12.9	13.4	13.7	13.9	14.4
65°	16.5	14.5	12.0	12.6	12.7	13.7	14.3	14.8	14.9	15.2	15.2
62.5°	23.2	19.6	17.4	15.4	15.1	16.3	16.1	17.3	16.5	16.7	16.5
60°	31.7	26.1	23.5	21.3	19.9	19.8	20.4	20.1	19.8	18.3	18.1
57.5°	39.6	32.2	31.3	28.4	27.5	26.0	26.2	25.6	24.0	22.5	19.8
55°	46.9	40.4	40.5	38.4	37.4	34.5	34.2	32.9	29.8	27.9	21.9
52.5°	54.3	52.0	51.3	52.0	51.3	46.0	45.5	41.2	38.8	33.9	27.5
50°	66.0	68.2	65.7	69.6	67.4	64.1	57.7	53.2	48.4	41.2	33.7
47.5°	95.8	97.4	90.0	92.9	89.4	84.6	76.0	66.7	58.5	50.5	39.9
45°	166.4	143.2	134.2	125.5	117.8	111.4	97.7	80.9	71.5	60.1	46.3
42.5°	263.3	231.6	206.5	163.3	160.2	142.5	121.9	102.5	85.1	70.0	54.1
40°	415.2	356.2	301.5	253.7	212.9	176.9	154.1	126.4	99.2	80.9	62.9
37.5°	576.9	502.0	430.3	356.7	282.9	232.7	189.7	151.6	116.0	93.6	71.9
35°	720.8	654.2	555.1	469.6	384.8	291.0	228.0	180.8	138.8	106.7	81.0
32.5°	844.4	780.6	672.8	577.7	467.4	350.8	276.2	214.0	162.0	120.1	90.6
30°	943.7	871.1	780.7	663.6	536.2	418.3	326.5	246.6	185.6	133.7	100.8
27.5°	1040.7	958.4	875.9	742.2	600.3	476.3	368.3	278.6	209.5	149.0	111.8
25°	1156.7	1049.6	958.7	827.9	663.1	523.1	405.9	309.9	235.2	166.7	122.4
22.5°	1301.5	1139.2	1042.8	917.9	734.8	569.3	442.6	342.9	257.3	183.5	132.5
20°	1427.9	1218.6	1123.2	1001.5	812.6	628.3	480.5	370.6	278.2	199.2	142.2
17.5°	1561.3	1301.8	1174.8	1061.0	888.4	687.8	520.1	396.7	297.9	213.8	151.4
15°	1740.4	1391.7	1222.1	1112.3	953.2	744.8	558.9	421.5	316.2	227.4	160.3
12.5°	1887.6	1475.4	1268.7	1152.5	1003.5	796.7	596.0	444.7	333.0	241.0	169.0
10°	2029.3	1564.8	1319.4	1190.6	1045.8	843.1	631.0	469.3	352.9	254.5	177.3
7.5°	2185.3	1649.0	1368.2	1226.9	1081.5	881.8	667.0	498.6	372.2	267.0	184.9
5°	2311.4	1723.7	1418.6	1267.5	1115.8	911.5	699.5	526.2	390.0	278.4	192.0
2.5°	2347.8	1786.2	1467.7	1305.8	1145.1	934.9	728.0	551.6	406.1	288.5	198.4
0°	2357.4	1837.1	1511.9	1339.8	1168.7	952.6	752.4	574.3	420.2	297.2	204.1
-2.5°	2407.3	1878.1	1551.5	1388.6	1211.0	975.4	766.3	586.1	432.1	307.4	212.4
-5°	2435.1	1907.0	1586.5	1431.9	1245.7	992.4	776.0	594.7	441.8	316.0	219.9
-7.5°	2450.7	1927.9	1618.3	1467.9	1271.3	1003.2	781.4	600.4	449.1	323.0	226.6
-10°	2443.2	1937.9	1645.6	1488.1	1283.2	1013.4	784.3	603.1	454.0	328.4	232.5
-12.5°	2454.3	1940.2	1667.4	1503.1	1287.5	1022.9	793.8	607.3	456.6	332.0	237.4
-15°	2454.7	1963.9	1702.6	1515.4	1285.1	1025.4	797.4	609.5	457.3	334.0	241.3
-17.5°	2399.0	1965.9	1735.1	1533.3	1277.8	1020.7	794.9	606.9	455.4	334.5	244.7
-20°	2382.6	1982.2	1753.7	1542.1	1261.8	1010.1	786.3	599.4	450.7	333.2	247.6



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2360.3	2017.8	1774.9	1522.7	1238.9	993.7	773.7	587.4	443.2	330.3	249.6
-25°	2291.1	2040.6	1784.8	1500.3	1214.4	975.6	758.7	576.9	433.0	325.6	250.6
-27.5°	2250.3	2029.7	1778.8	1463.1	1188.3	949.8	743.0	569.2	426.0	319.2	250.8
-30°	2225.5	1996.3	1726.2	1414.9	1149.8	918.9	723.1	557.2	420.5	316.5	250.1
-32.5°	2168.1	1956.1	1646.7	1360.0	1107.0	882.7	698.8	540.6	412.1	316.2	249.5
-35°	2081.8	1855.3	1552.5	1290.7	1059.4	850.7	671.4	519.3	400.8	314.4	248.6
-37.5°	1981.2	1713.9	1466.7	1217.4	998.0	811.2	643.4	500.0	386.6	311.1	247.0
-40°	1823.6	1575.7	1351.3	1140.0	937.1	762.1	610.7	481.4	377.9	306.1	244.5
-42.5°	1659.2	1439.2	1237.5	1047.8	871.9	715.5	574.9	459.6	370.8	301.3	240.9
-45°	1502.5	1301.8	1122.4	959.1	802.5	665.2	546.0	436.7	361.6	295.9	237.4
-47.5°	1345.1	1173.7	1013.6	865.8	741.6	615.0	511.1	423.9	350.6	289.4	234.6
-50°	1201.2	1048.4	907.7	782.4	670.3	573.0	477.7	408.8	340.6	281.0	230.9
-52.5°	1064.6	929.2	808.6	699.0	610.7	527.7	454.9	390.5	328.8	273.8	226.4
-55°	935.6	818.1	713.5	627.3	552.4	492.8	429.8	372.2	315.2	266.8	221.5
-57.5°	818.5	711.7	634.9	562.9	505.5	457.6	405.3	352.2	304.4	258.8	219.0
-60°	706.4	632.1	564.1	511.6	465.2	423.4	380.5	333.0	293.9	250.8	215.5
-62.5°	617.8	557.1	511.2	466.6	426.5	390.6	355.7	317.8	281.7	245.6	211.3
-65°	545.0	502.7	460.7	424.7	389.5	359.8	335.8	301.6	272.1	239.8	206.4
-67.5°	485.6	450.7	416.0	383.4	358.7	336.9	314.4	289.0	263.1	233.3	200.5
-70°	432.1	401.0	375.9	354.5	334.1	314.7	298.8	277.7	253.5	225.5	194.0
-72.5°	388.1	367.5	346.7	327.5	313.2	298.7	284.0	265.7	242.6	216.9	187.0
-75°	354.8	338.7	323.1	308.7	295.6	282.4	268.9	252.9	231.3	207.9	178.9
-77.5°	330.6	316.5	302.7	289.5	277.5	265.4	253.4	239.8	219.1	197.1	170.0
-80°	306.4	293.8	281.6	269.6	258.9	248.0	236.9	224.4	205.2	185.7	160.7
-82.5°	281.8	270.7	259.7	248.6	238.7	228.5	218.6	208.0	191.0	173.8	151.9
-85°	256.6	246.6	236.6	226.6	217.8	208.9	201.2	193.0	178.8	164.4	144.6
-87.5°	235.7	227.1	218.5	209.9	202.8	195.5	188.2	180.7	167.8	154.9	137.0
-90°	6.0	6.0	6.5	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.5



REPORT NUMBER: P731469 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	113.1	93.5	74.0	53.0	32.0	21.5	11.0
87.5°	9.5	9.4	9.3	9.3	9.3	10.2	11.0
85°	10.0	9.9	9.7	9.7	9.5	10.4	11.0
82.5°	10.5	10.3	10.0	10.0	9.8	10.7	11.0
80°	11.1	10.7	10.4	10.3	10.1	10.9	11.0
77.5°	11.6	11.2	10.8	10.6	10.4	11.1	11.0
75°	12.2	11.9	11.2	11.0	10.7	11.3	11.0
72.5°	12.8	12.6	11.9	11.3	11.0	11.6	11.0
70°	13.4	13.3	12.6	11.7	11.3	11.8	11.0
67.5°	14.3	14.0	13.3	12.3	11.7	12.0	11.0
65°	15.2	14.8	14.0	12.9	12.0	12.3	11.0
62.5°	16.1	15.7	14.8	13.5	12.4	12.5	11.0
60°	17.1	16.5	15.5	14.0	12.8	12.8	11.0
57.5°	19.0	17.4	16.5	14.6	13.4	13.0	11.0
55°	21.2	18.2	17.6	15.2	14.1	13.3	11.0
52.5°	23.6	19.4	18.7	15.8	14.9	13.5	11.0
50°	26.1	22.2	20.0	16.3	15.6	13.7	11.0
47.5°	29.3	25.1	21.3	17.0	16.4	14.0	11.0
45°	34.8	28.1	22.8	18.1	17.3	14.2	11.0
42.5°	40.4	31.3	24.3	19.2	18.1	14.5	11.0
40°	46.3	34.7	26.4	20.9	19.1	14.7	11.0
37.5°	52.6	38.2	29.0	22.9	20.0	15.0	11.0
35°	59.1	42.8	31.7	25.0	21.0	15.2	11.0
32.5°	66.0	47.9	34.4	27.0	22.0	15.5	11.0
30°	74.0	52.9	37.1	29.2	23.0	15.7	11.0
27.5°	81.9	57.9	40.8	31.3	24.1	15.9	11.0
25°	89.6	62.9	44.5	33.5	25.1	16.2	11.0
22.5°	97.1	67.9	48.1	35.7	26.2	16.4	11.0
20°	104.3	73.3	51.7	37.9	27.3	16.6	11.0
17.5°	111.5	78.6	55.1	40.1	28.3	16.8	11.0
15°	118.5	83.6	58.5	42.2	29.4	17.0	11.0
12.5°	125.0	88.3	61.7	44.3	30.4	17.2	11.0
10°	131.2	92.8	64.9	46.4	31.4	17.4	11.0
7.5°	136.8	97.1	67.9	48.4	32.4	17.6	11.0
5°	142.1	101.0	70.7	50.4	33.3	17.7	11.0
2.5°	146.8	104.7	73.4	52.2	34.2	17.9	11.0
0°	151.1	108.1	76.0	54.0	35.0	18.0	11.0
-2.5°	157.5	113.0	79.5	56.4	36.5	18.7	11.0
-5°	163.4	117.6	82.9	58.7	37.9	19.4	11.0
-7.5°	168.8	121.9	86.0	60.8	39.3	20.0	11.0
-10°	173.5	125.7	89.0	62.8	40.6	20.7	11.0
-12.5°	177.7	129.2	91.7	64.7	41.8	21.3	11.0
-15°	181.1	132.2	94.2	66.4	42.9	21.9	11.0
-17.5°	183.9	134.8	96.4	68.0	43.9	22.4	11.0
-20°	186.5	136.9	98.3	69.5	44.8	22.9	11.0



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 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	189.0	138.5	100.0	70.8	45.7	23.4	11.0
-25°	190.9	140.4	101.4	71.9	46.4	23.9	11.0
-27.5°	192.0	142.3	102.5	72.8	47.0	24.3	11.0
-30°	192.4	143.7	103.5	73.6	47.6	24.7	11.0
-32.5°	192.0	144.6	105.2	74.3	48.0	25.0	11.0
-35°	192.0	145.0	106.7	74.7	48.3	25.3	11.0
-37.5°	192.0	145.5	107.8	75.0	48.5	25.6	11.0
-40°	191.4	146.6	108.7	75.1	48.7	25.8	11.0
-42.5°	190.3	147.3	109.5	75.2	48.7	26.0	11.0
-45°	188.7	147.7	110.1	75.7	48.6	26.1	11.0
-47.5°	186.4	147.7	110.3	75.9	48.4	26.2	11.0
-50°	185.5	147.3	110.1	75.9	48.0	26.3	11.0
-52.5°	184.5	146.6	109.6	75.8	47.6	26.2	11.0
-55°	183.0	145.3	108.7	75.4	47.1	26.2	11.0
-57.5°	181.0	143.5	107.5	74.9	46.4	26.1	11.0
-60°	178.5	141.3	106.0	74.1	45.7	26.0	11.0
-62.5°	175.1	138.7	104.5	73.1	45.1	25.8	11.0
-65°	171.3	135.7	102.7	72.0	44.4	25.6	11.0
-67.5°	167.0	132.5	100.6	70.6	43.5	25.3	11.0
-70°	162.2	128.9	98.3	69.0	42.6	25.0	11.0
-72.5°	156.5	124.9	95.7	67.5	41.5	24.7	11.0
-75°	150.2	120.5	92.8	65.9	40.4	24.3	11.0
-77.5°	143.5	115.8	90.1	64.1	39.2	23.9	11.0
-80°	136.3	111.4	87.3	62.2	37.9	23.5	11.0
-82.5°	130.7	107.3	84.2	60.1	36.5	23.0	11.0
-85°	125.1	102.9	81.0	57.9	35.0	22.5	11.0
-87.5°	119.2	98.3	77.6	55.5	33.5	22.0	11.0
-90°	9.0	9.0	9.0	9.0	9.0	10.0	11.0

(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

