

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: P701473 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-80-5S-HEG-S**

Issue Date: 8/15/2023

Test Information

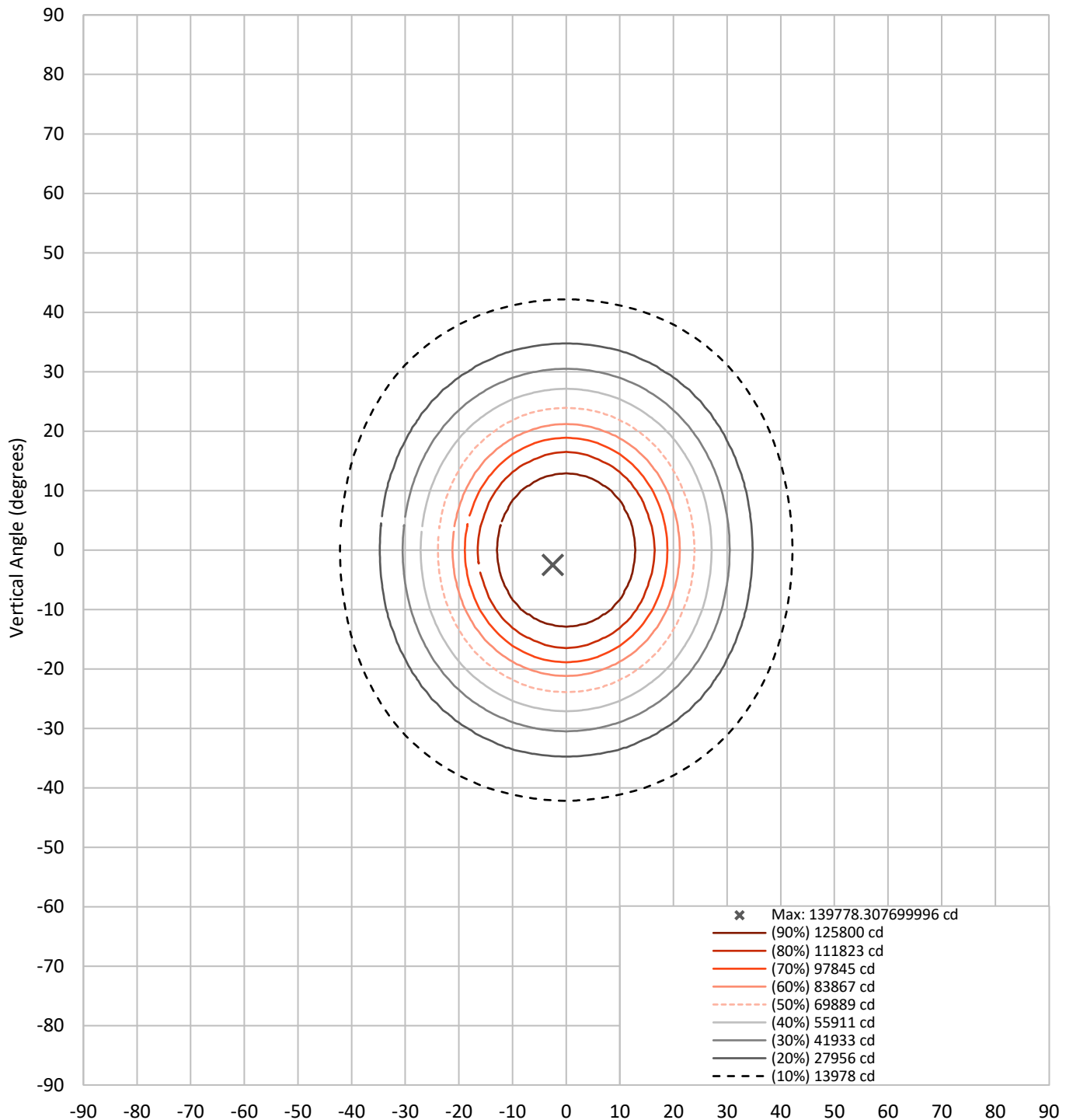
Test Method: LM-79-08
Report Number: P701473 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-40-80-5S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	102169.5 lumens	Max Intensity:	139778.3 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	146.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	47.6°H x 47.6°V	Field Angle (10%):	84.3°H x 84.3°V
Beam Lumens:	57317 lumens	Field Lumens:	95196.7 lumens
Beam Efficiency:	56.1%	Field Efficiency:	93.2%
Input Watts (W):	697.5		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot





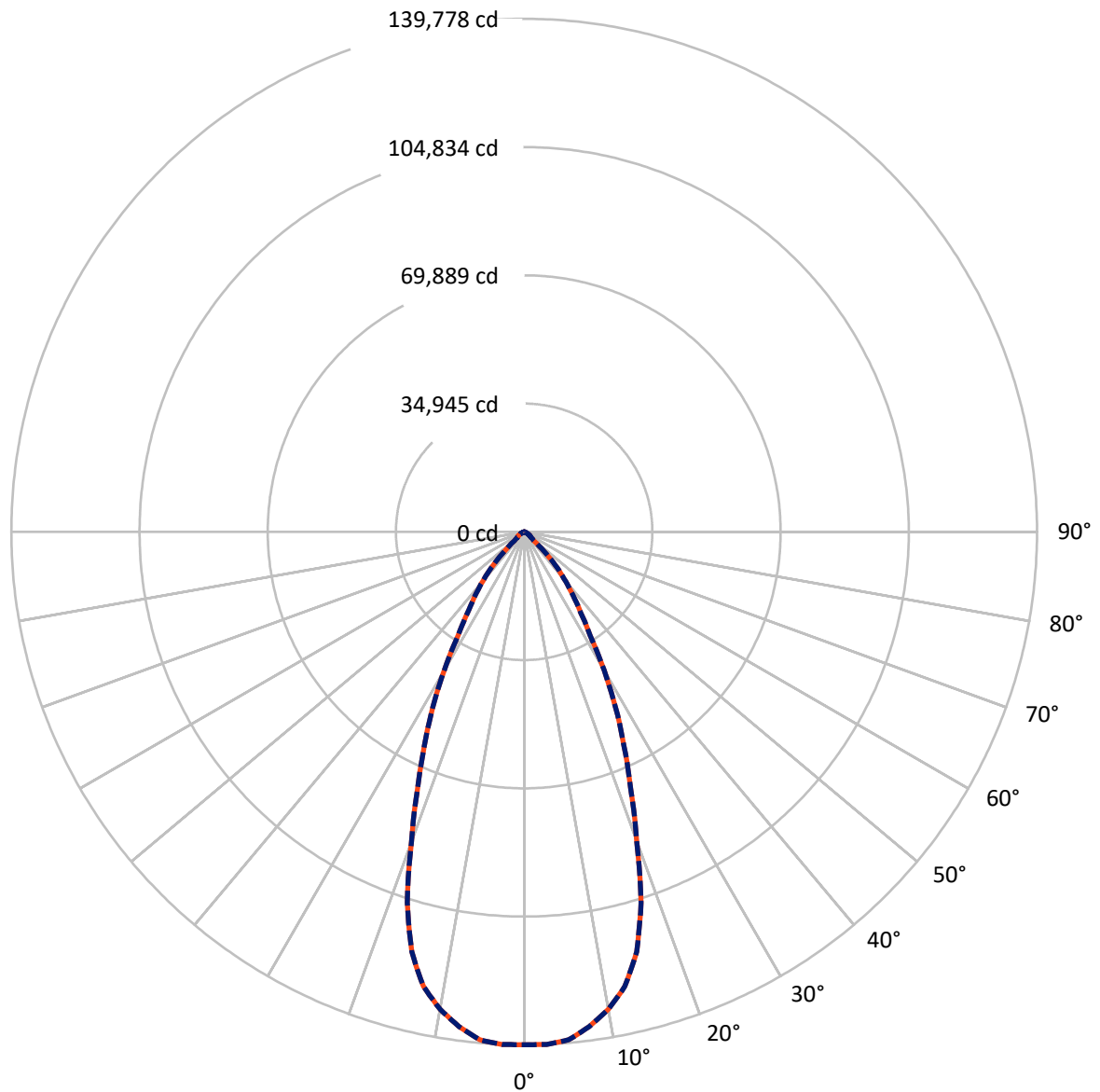
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Lumen Table

90																
80	0.1	1.0		3.2		6.9		8.8		6.9		3.2		1.0		0.1
70																
60	0.4	0.5	1.7	4.4	9.1	14.7	20.0	22.9	22.9	20.0	14.7	9.1	4.4	1.7	0.5	0.4
50		1.3	5.2	14.1	27.5	42.0	52.9	58.7	58.7	52.9	42.0	27.5	14.1	5.2	1.3	
40	1.1	2.7	11.5	29.2	50.4	90.9	185.2	260.7	260.7	185.2	90.9	50.4	29.2	11.5	2.7	1.1
30		4.8	19.5	43.7	126.8	383.8	648.1	830.4	830.4	648.1	383.8	126.8	43.7	19.5	4.8	
20	1.9	7.1	26.9	71.8	348.8	793.5	1420.1	1906.0	1906.0	1420.1	793.5	348.8	71.8	26.9	7.1	1.9
10		9.1	31.8	138.8	553.2	1336.4	2483.5	3383.5	3383.5	2483.5	1336.4	553.2	138.8	31.8	9.1	
0	2.4	10.1	34.2	189.7	688.3	1741.3	3284.9	4100.4	4100.4	3284.9	1741.3	688.3	189.7	34.2	10.1	2.4
-10		10.1	34.2	189.7	688.3	1741.3	3284.9	4100.4	4100.4	3284.9	1741.3	688.3	189.7	34.2	10.1	
-20	1.9	9.1	31.8	138.8	553.2	1336.4	2483.5	3383.5	3383.5	2483.5	1336.4	553.2	138.8	31.8	9.1	1.9
-30		7.1	26.9	71.8	348.8	793.5	1420.1	1906.0	1906.0	1420.1	793.5	348.8	71.8	26.9	7.1	
-40	1.1	4.8	19.5	43.7	126.8	383.8	648.1	830.4	830.4	648.1	383.8	126.8	43.7	19.5	4.8	1.1
-50		2.7	11.5	29.2	50.4	90.9	185.2	260.7	260.7	185.2	90.9	50.4	29.2	11.5	2.7	
-60	0.4	1.3	5.2	14.1	27.5	42.0	52.9	58.7	58.7	52.9	42.0	27.5	14.1	5.2	1.3	0.4
-70		0.5	1.7	4.4	9.1	14.7	20.0	22.9	22.9	20.0	14.7	9.1	4.4	1.7	0.5	
-80																
-90	0.1	1.0		3.2		6.9		8.8		6.9		3.2		1.0		0.1

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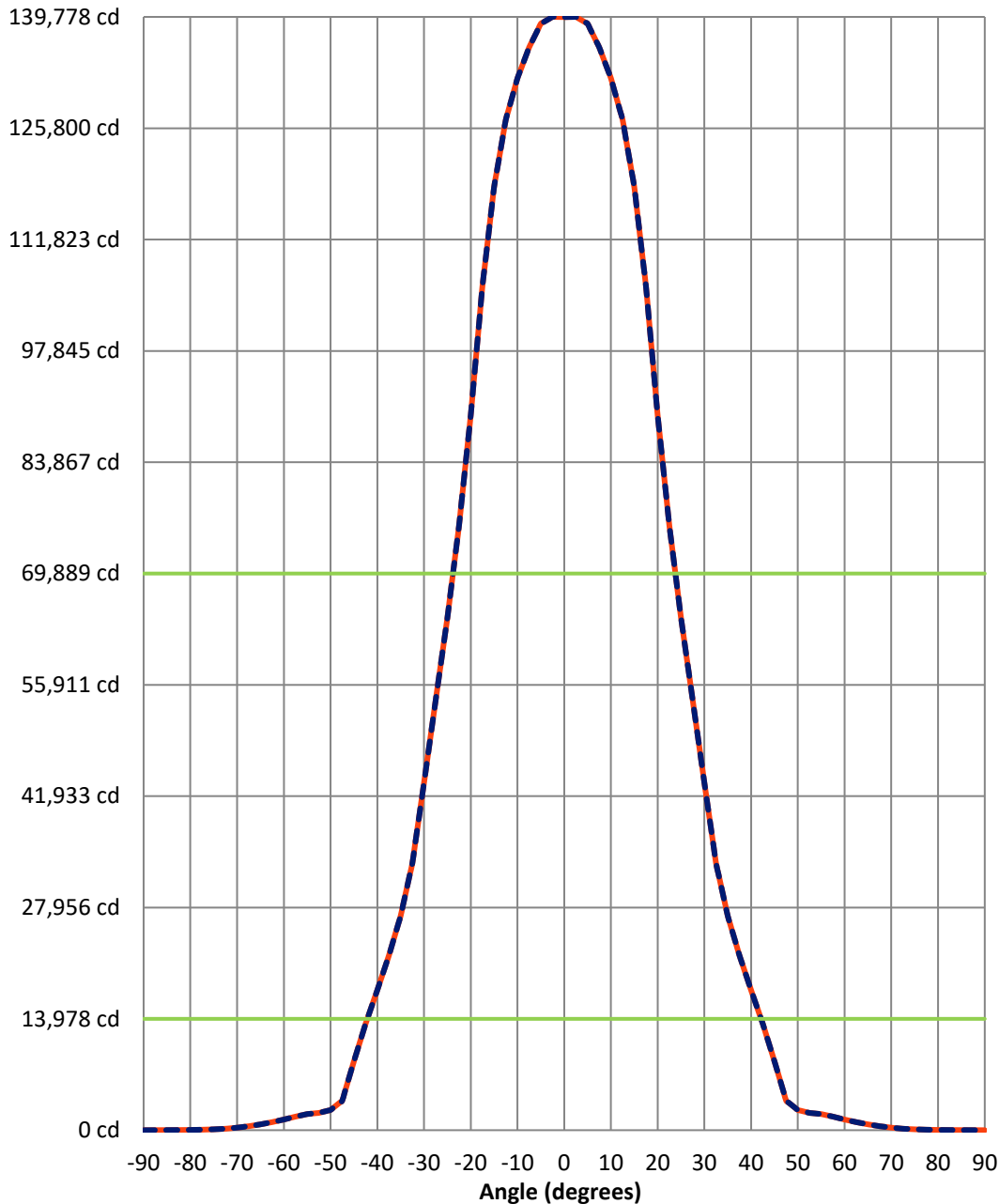
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 47.6°
 V Angle: 47.6°
 Lumens: 57317
 Efficiency: 56.1%

Field:
 H Angle: 84.3°
 V Angle: 84.3°
 Lumens: 95196.7
 Efficiency: 93.2%

Spill:
 Lumens: 6972.8
 Efficiency: 6.8%

- Vertical Distribution through -2.5-Deg
- - - Horizontal Distribution through -2.5-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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.0	2.3	2.6	2.9
85°	0.0	0.6	1.2	1.8	2.4	2.9	3.5	4.1	4.6	5.2	5.7
82.5°	0.0	0.9	1.8	2.7	3.5	4.4	5.3	6.1	7.0	7.8	8.6
80°	0.0	1.2	2.4	3.5	4.7	5.9	7.0	8.1	9.3	10.4	11.4
77.5°	0.0	1.5	2.9	4.4	5.9	7.3	8.7	10.2	11.5	12.9	14.4
75°	0.0	1.8	3.5	5.3	7.0	8.7	10.4	12.1	13.9	15.9	18.0
72.5°	0.0	2.0	4.1	6.1	8.1	10.2	12.1	14.2	16.7	19.1	21.4
70°	0.0	2.3	4.6	7.0	9.3	11.5	13.9	16.7	19.4	22.2	25.9
67.5°	0.0	2.6	5.2	7.8	10.4	12.9	15.9	19.1	22.2	26.4	30.6
65°	0.0	2.9	5.7	8.6	11.4	14.4	18.0	21.4	25.9	30.6	37.0
62.5°	0.0	3.1	6.3	9.4	12.5	16.1	19.9	24.4	29.6	35.8	47.5
60°	0.0	3.4	6.8	10.2	13.5	17.7	21.9	27.5	33.2	45.1	57.8
57.5°	0.0	3.7	7.3	10.9	14.8	19.3	24.4	30.6	40.3	54.2	73.4
55°	0.0	3.9	7.8	11.7	16.0	20.8	27.0	33.6	48.2	64.6	91.2
52.5°	0.0	4.1	8.3	12.4	17.2	22.4	29.5	39.9	55.8	80.2	108.5
50°	0.0	4.4	8.7	13.1	18.4	24.4	31.9	46.4	65.0	95.3	132.0
47.5°	0.0	4.6	9.2	13.8	19.5	26.4	34.7	52.6	78.0	110.0	155.6
45°	0.0	4.8	9.6	14.6	20.6	28.3	39.8	58.7	90.5	130.2	178.3
42.5°	0.0	5.0	10.0	15.4	21.6	30.0	44.8	67.2	102.5	149.8	217.0
40°	0.0	5.2	10.4	16.1	22.8	31.7	49.5	77.2	115.7	168.6	256.9
37.5°	0.0	5.4	10.8	16.8	24.1	33.4	54.0	86.7	131.5	191.0	294.9
35°	0.0	5.6	11.1	17.5	25.3	36.2	58.3	95.7	146.5	223.2	336.0
32.5°	0.0	5.7	11.5	18.1	26.4	39.5	63.2	104.2	160.6	253.7	382.4
30°	0.0	5.9	11.8	18.7	27.5	42.6	70.0	113.0	173.8	282.2	425.8
27.5°	0.0	6.0	12.1	19.2	28.5	45.5	76.3	123.7	190.2	308.7	466.3
25°	0.0	6.2	12.3	19.7	29.4	48.2	82.1	133.5	211.8	338.9	504.0
22.5°	0.0	6.3	12.6	20.1	30.3	50.6	87.4	142.5	231.5	369.3	546.6
20°	0.0	6.4	12.8	20.6	31.0	52.8	92.1	150.6	249.2	396.8	585.1
17.5°	0.0	6.5	13.0	20.9	31.7	54.7	96.3	157.7	265.0	421.2	619.2
15°	0.0	6.6	13.1	21.2	32.3	56.4	100.0	164.0	278.7	442.5	649.1
12.5°	0.0	6.6	13.3	21.5	32.8	57.8	103.1	169.3	290.4	460.6	674.5
10°	0.0	6.7	13.4	21.7	33.2	59.0	105.7	173.7	300.0	475.5	695.4
7.5°	0.0	6.7	13.5	21.9	33.5	59.9	107.7	177.1	307.5	487.1	711.7
5°	0.0	6.8	13.5	22.0	33.7	60.6	109.2	179.5	312.9	495.4	723.4
2.5°	0.0	6.8	13.6	22.1	33.9	61.0	110.0	181.0	316.1	500.4	730.5
0°	0.0	6.8	13.6	22.1	33.9	61.1	110.3	181.5	317.2	502.1	732.8
-2.5°	0.0	6.8	13.6	22.1	33.9	61.1	110.3	181.5	317.2	502.1	732.8
-5°	0.0	6.8	13.5	22.0	33.7	60.6	109.2	179.5	312.9	495.4	723.4
-7.5°	0.0	6.7	13.5	21.9	33.5	59.9	107.7	177.1	307.5	487.1	711.7
-10°	0.0	6.7	13.4	21.7	33.2	59.0	105.7	173.7	300.0	475.5	695.4
-12.5°	0.0	6.6	13.3	21.5	32.8	57.8	103.1	169.3	290.4	460.6	674.5
-15°	0.0	6.6	13.1	21.2	32.3	56.4	100.0	164.0	278.7	442.5	649.1
-17.5°	0.0	6.5	13.0	20.9	31.7	54.7	96.3	157.7	265.0	421.2	619.2
-20°	0.0	6.4	12.8	20.6	31.0	52.8	92.1	150.6	249.2	396.8	585.1



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	6.3	12.6	20.1	30.3	50.6	87.4	142.5	231.5	369.3	546.6
-25°	0.0	6.2	12.3	19.7	29.4	48.2	82.1	133.5	211.8	338.9	504.0
-27.5°	0.0	6.0	12.1	19.2	28.5	45.5	76.3	123.7	190.2	308.7	466.3
-30°	0.0	5.9	11.8	18.7	27.5	42.6	70.0	113.0	173.8	282.2	425.8
-32.5°	0.0	5.7	11.5	18.1	26.4	39.5	63.2	104.2	160.6	253.7	382.4
-35°	0.0	5.6	11.1	17.5	25.3	36.2	58.3	95.7	146.5	223.2	336.0
-37.5°	0.0	5.4	10.8	16.8	24.1	33.4	54.0	86.7	131.5	191.0	294.9
-40°	0.0	5.2	10.4	16.1	22.8	31.7	49.5	77.2	115.7	168.6	256.9
-42.5°	0.0	5.0	10.0	15.4	21.6	30.0	44.8	67.2	102.5	149.8	217.0
-45°	0.0	4.8	9.6	14.6	20.6	28.3	39.8	58.7	90.5	130.2	178.3
-47.5°	0.0	4.6	9.2	13.8	19.5	26.4	34.7	52.6	78.0	110.0	155.6
-50°	0.0	4.4	8.7	13.1	18.4	24.4	31.9	46.4	65.0	95.3	132.0
-52.5°	0.0	4.1	8.3	12.4	17.2	22.4	29.5	39.9	55.8	80.2	108.5
-55°	0.0	3.9	7.8	11.7	16.0	20.8	27.0	33.6	48.2	64.6	91.2
-57.5°	0.0	3.7	7.3	10.9	14.8	19.3	24.4	30.6	40.3	54.2	73.4
-60°	0.0	3.4	6.8	10.2	13.5	17.7	21.9	27.5	33.2	45.1	57.8
-62.5°	0.0	3.1	6.3	9.4	12.5	16.1	19.9	24.4	29.6	35.8	47.5
-65°	0.0	2.9	5.7	8.6	11.4	14.4	18.0	21.4	25.9	30.6	37.0
-67.5°	0.0	2.6	5.2	7.8	10.4	12.9	15.9	19.1	22.2	26.4	30.6
-70°	0.0	2.3	4.6	7.0	9.3	11.5	13.9	16.7	19.4	22.2	25.9
-72.5°	0.0	2.0	4.1	6.1	8.1	10.2	12.1	14.2	16.7	19.1	21.4
-75°	0.0	1.8	3.5	5.3	7.0	8.7	10.4	12.1	13.9	15.9	18.0
-77.5°	0.0	1.5	2.9	4.4	5.9	7.3	8.7	10.2	11.5	12.9	14.4
-80°	0.0	1.2	2.4	3.5	4.7	5.9	7.0	8.1	9.3	10.4	11.4
-82.5°	0.0	0.9	1.8	2.7	3.5	4.4	5.3	6.1	7.0	7.8	8.6
-85°	0.0	0.6	1.2	1.8	2.4	2.9	3.5	4.1	4.6	5.2	5.7
-87.5°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.0	2.3	2.6	2.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	3.4	3.7	3.9	4.1	4.4	4.6	4.8	5.0	5.2	5.4
85°	6.3	6.8	7.3	7.8	8.3	8.7	9.2	9.6	10.0	10.4	10.8
82.5°	9.4	10.2	10.9	11.7	12.4	13.1	13.8	14.6	15.4	16.1	16.8
80°	12.5	13.5	14.8	16.0	17.2	18.4	19.5	20.6	21.6	22.8	24.1
77.5°	16.1	17.7	19.3	20.8	22.4	24.4	26.4	28.3	30.0	31.7	33.4
75°	19.9	21.9	24.4	27.0	29.5	31.9	34.7	39.8	44.8	49.5	54.0
72.5°	24.4	27.5	30.6	33.6	39.9	46.4	52.6	58.7	67.2	77.2	86.7
70°	29.6	33.2	40.3	48.2	55.8	65.0	78.0	90.5	102.5	115.7	131.5
67.5°	35.8	45.1	54.2	64.6	80.2	95.3	110.0	130.2	149.8	168.6	191.0
65°	47.5	57.8	73.4	91.2	108.5	132.0	155.6	178.3	217.0	256.9	294.9
62.5°	59.0	77.8	97.8	120.5	148.1	174.8	218.2	266.0	312.0	370.1	427.4
60°	77.8	100.0	126.9	157.7	193.5	249.2	303.2	369.3	437.9	504.0	582.4
57.5°	97.8	126.9	161.0	205.9	267.9	332.3	412.2	489.5	579.3	668.7	758.8
55°	120.5	157.7	205.9	274.2	349.5	438.1	529.7	633.8	734.7	852.7	965.7
52.5°	148.1	193.5	267.9	349.5	446.8	551.5	666.8	788.7	920.7	1053.1	1194.1
50°	174.8	249.2	332.3	438.1	551.5	677.8	816.0	961.9	1117.1	1274.8	1437.9
47.5°	218.2	303.2	412.2	529.7	666.8	816.0	975.7	1149.4	1323.7	1512.7	1696.7
45°	266.0	369.3	489.5	633.8	788.7	961.9	1149.4	1340.1	1550.4	1747.9	1917.1
42.5°	312.0	437.9	579.3	734.7	920.7	1117.1	1323.7	1550.4	1764.5	1950.7	2074.4
40°	370.1	504.0	668.7	852.7	1053.1	1274.8	1512.7	1747.9	1950.7	2082.0	2167.2
37.5°	427.4	582.4	758.8	965.7	1194.1	1437.9	1696.7	1917.1	2074.4	2167.2	2394.3
35°	481.7	657.0	858.1	1082.7	1328.6	1602.2	1850.4	2051.5	2151.6	2373.5	2794.4
32.5°	540.8	727.4	952.0	1200.8	1472.1	1751.8	1995.1	2120.7	2311.7	2658.4	3491.6
30°	600.9	807.0	1044.4	1312.0	1608.8	1879.1	2075.0	2210.0	2493.9	3283.6	5534.3
27.5°	657.0	882.4	1139.9	1426.2	1733.1	1998.4	2132.4	2370.3	2941.6	4340.4	8200.6
25°	708.7	952.0	1228.2	1535.5	1835.6	2064.9	2209.2	2519.9	3458.4	6681.3	10587.9
22.5°	761.2	1016.0	1309.1	1635.9	1929.8	2110.5	2337.2	2916.7	4602.0	8847.3	12778.2
20°	813.4	1082.7	1388.1	1724.5	2015.3	2151.9	2453.7	3321.8	6448.4	10716.1	14651.3
17.5°	859.9	1142.1	1462.3	1794.6	2056.9	2217.2	2595.8	3685.6	8110.1	12402.0	16280.2
15°	900.4	1194.1	1527.2	1855.9	2086.8	2301.7	2891.1	4894.3	9525.8	13847.9	17726.2
12.5°	935.0	1238.3	1582.5	1908.2	2112.4	2374.0	3144.1	6055.1	10709.0	14996.8	19024.8
10°	963.5	1274.8	1628.1	1951.4	2133.5	2433.7	3353.3	7016.3	11690.4	15951.5	20106.1
7.5°	985.7	1303.3	1663.8	1985.2	2150.0	2480.5	3517.4	7771.2	12462.2	16703.5	20959.5
5°	1001.6	1323.7	1689.4	2009.4	2161.9	2514.2	3635.4	8314.5	13018.1	17245.9	21575.9
2.5°	1011.2	1336.0	1704.8	2024.0	2169.0	2534.4	3706.5	8642.1	13353.6	17573.4	21948.6
0°	1014.4	1340.1	1709.9	2028.9	2171.4	2541.2	3730.3	8751.6	13465.8	17683.0	22073.3
-2.5°	1011.2	1336.0	1704.8	2024.0	2169.0	2534.4	3706.5	8642.1	13353.6	17573.4	21948.6
-5°	1001.6	1323.7	1689.4	2009.4	2161.9	2514.2	3635.4	8314.5	13018.1	17245.9	21575.9
-7.5°	985.7	1303.3	1663.8	1985.2	2150.0	2480.5	3517.4	7771.2	12462.2	16703.5	20959.5
-10°	963.5	1274.8	1628.1	1951.4	2133.5	2433.7	3353.3	7016.3	11690.4	15951.5	20106.1
-12.5°	935.0	1238.3	1582.5	1908.2	2112.4	2374.0	3144.1	6055.1	10709.0	14996.8	19024.8
-15°	900.4	1194.1	1527.2	1855.9	2086.8	2301.7	2891.1	4894.3	9525.8	13847.9	17726.2
-17.5°	859.9	1142.1	1462.3	1794.6	2056.9	2217.2	2595.8	3685.6	8110.1	12402.0	16280.2
-20°	813.4	1082.7	1388.1	1724.5	2015.3	2151.9	2453.7	3321.8	6448.4	10716.1	14651.3



REPORT NUMBER: P701473 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	761.2	1016.0	1309.1	1635.9	1929.8	2110.5	2337.2	2916.7	4602.0	8847.3	12778.2
-25°	708.7	952.0	1228.2	1535.5	1835.6	2064.9	2209.2	2519.9	3458.4	6681.3	10587.9
-27.5°	657.0	882.4	1139.9	1426.2	1733.1	1998.4	2132.4	2370.3	2941.6	4340.4	8200.6
-30°	600.9	807.0	1044.4	1312.0	1608.8	1879.1	2075.0	2210.0	2493.9	3283.6	5534.3
-32.5°	540.8	727.4	952.0	1200.8	1472.1	1751.8	1995.1	2120.7	2311.7	2658.4	3491.6
-35°	481.7	657.0	858.1	1082.7	1328.6	1602.2	1850.4	2051.5	2151.6	2373.5	2794.4
-37.5°	427.4	582.4	758.8	965.7	1194.1	1437.9	1696.7	1917.1	2074.4	2167.2	2394.3
-40°	370.1	504.0	668.7	852.7	1053.1	1274.8	1512.7	1747.9	1950.7	2082.0	2167.2
-42.5°	312.0	437.9	579.3	734.7	920.7	1117.1	1323.7	1550.4	1764.5	1950.7	2074.4
-45°	266.0	369.3	489.5	633.8	788.7	961.9	1149.4	1340.1	1550.4	1747.9	1917.1
-47.5°	218.2	303.2	412.2	529.7	666.8	816.0	975.7	1149.4	1323.7	1512.7	1696.7
-50°	174.8	249.2	332.3	438.1	551.5	677.8	816.0	961.9	1117.1	1274.8	1437.9
-52.5°	148.1	193.5	267.9	349.5	446.8	551.5	666.8	788.7	920.7	1053.1	1194.1
-55°	120.5	157.7	205.9	274.2	349.5	438.1	529.7	633.8	734.7	852.7	965.7
-57.5°	97.8	126.9	161.0	205.9	267.9	332.3	412.2	489.5	579.3	668.7	758.8
-60°	77.8	100.0	126.9	157.7	193.5	249.2	303.2	369.3	437.9	504.0	582.4
-62.5°	59.0	77.8	97.8	120.5	148.1	174.8	218.2	266.0	312.0	370.1	427.4
-65°	47.5	57.8	73.4	91.2	108.5	132.0	155.6	178.3	217.0	256.9	294.9
-67.5°	35.8	45.1	54.2	64.6	80.2	95.3	110.0	130.2	149.8	168.6	191.0
-70°	29.6	33.2	40.3	48.2	55.8	65.0	78.0	90.5	102.5	115.7	131.5
-72.5°	24.4	27.5	30.6	33.6	39.9	46.4	52.6	58.7	67.2	77.2	86.7
-75°	19.9	21.9	24.4	27.0	29.5	31.9	34.7	39.8	44.8	49.5	54.0
-77.5°	16.1	17.7	19.3	20.8	22.4	24.4	26.4	28.3	30.0	31.7	33.4
-80°	12.5	13.5	14.8	16.0	17.2	18.4	19.5	20.6	21.6	22.8	24.1
-82.5°	9.4	10.2	10.9	11.7	12.4	13.1	13.8	14.6	15.4	16.1	16.8
-85°	6.3	6.8	7.3	7.8	8.3	8.7	9.2	9.6	10.0	10.4	10.8
-87.5°	3.1	3.4	3.7	3.9	4.1	4.4	4.6	4.8	5.0	5.2	5.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	5.7	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.6	6.7
85°	11.1	11.5	11.8	12.1	12.3	12.6	12.8	13.0	13.1	13.3	13.4
82.5°	17.5	18.1	18.7	19.2	19.7	20.1	20.6	20.9	21.2	21.5	21.7
80°	25.3	26.4	27.5	28.5	29.4	30.3	31.0	31.7	32.3	32.8	33.2
77.5°	36.2	39.5	42.6	45.5	48.2	50.6	52.8	54.7	56.4	57.8	59.0
75°	58.3	63.2	70.0	76.3	82.1	87.4	92.1	96.3	100.0	103.1	105.7
72.5°	95.7	104.2	113.0	123.7	133.5	142.5	150.6	157.7	164.0	169.3	173.7
70°	146.5	160.6	173.8	190.2	211.8	231.5	249.2	265.0	278.7	290.4	300.0
67.5°	223.2	253.7	282.2	308.7	338.9	369.3	396.8	421.2	442.5	460.6	475.5
65°	336.0	382.4	425.8	466.3	504.0	546.6	585.1	619.2	649.1	674.5	695.4
62.5°	481.7	540.8	600.9	657.0	708.7	761.2	813.4	859.9	900.4	935.0	963.5
60°	657.0	727.4	807.0	882.4	952.0	1016.0	1082.7	1142.1	1194.1	1238.3	1274.8
57.5°	858.1	952.0	1044.4	1139.9	1228.2	1309.1	1388.1	1462.3	1527.2	1582.5	1628.1
55°	1082.7	1200.8	1312.0	1426.2	1535.5	1635.9	1724.5	1794.6	1855.9	1908.2	1951.4
52.5°	1328.6	1472.1	1608.8	1733.1	1835.6	1929.8	2015.3	2056.9	2086.8	2112.4	2133.5
50°	1602.2	1751.8	1879.1	1998.4	2064.9	2110.5	2151.9	2217.2	2301.7	2374.0	2433.7
47.5°	1850.4	1995.1	2075.0	2132.4	2209.2	2337.2	2453.7	2595.8	2891.1	3144.1	3353.3
45°	2051.5	2120.7	2210.0	2370.3	2519.9	2916.7	3321.8	3685.6	4894.3	6055.1	7016.3
42.5°	2151.6	2311.7	2493.9	2941.6	3458.4	4602.0	6448.4	8110.1	9525.8	10709.0	11690.4
40°	2373.5	2658.4	3283.6	4340.4	6681.3	8847.3	10716.1	12402.0	13847.9	14996.8	15951.5
37.5°	2794.4	3491.6	5534.3	8200.6	10587.9	12778.2	14651.3	16280.2	17726.2	19024.8	20106.1
35°	3561.5	6137.9	9103.6	11772.2	14202.3	16304.3	18265.2	20096.2	21724.8	23278.2	24614.3
32.5°	6137.9	9395.6	12371.7	15027.6	17432.0	19766.9	21937.1	24161.5	26163.5	28192.8	30146.3
30°	9103.6	12371.7	15305.1	18017.0	20686.1	23348.2	25995.2	28880.8	31790.7	34653.0	37933.7
27.5°	11772.2	15027.6	18017.0	20995.7	24074.7	27144.3	30956.9	34855.6	39708.3	43964.8	47629.5
25°	14202.3	17432.0	20686.1	24074.7	27653.4	32015.2	37386.6	43203.7	48563.3	53306.2	57313.0
22.5°	16304.3	19766.9	23348.2	27144.3	32015.2	38242.3	45011.4	51415.5	57239.4	62394.7	67072.8
20°	18265.2	21937.1	25995.2	30956.9	37386.6	45011.4	52382.9	59257.9	65673.8	72085.8	77840.5
17.5°	20096.2	24161.5	28880.8	34855.6	43203.7	51415.5	59257.9	66899.4	74684.7	82778.3	90172.9
15°	21724.8	26163.5	31790.7	39708.3	48563.3	57239.4	65673.8	74684.7	84471.9	94343.9	104024.6
12.5°	23278.2	28192.8	34653.0	43964.8	53306.2	62394.7	72085.8	82778.3	94343.9	106375.8	114693.9
10°	24614.3	30146.3	37933.7	47629.5	57313.0	67072.8	77840.5	90172.9	104024.6	114693.9	122694.4
7.5°	25671.1	31695.8	40544.7	50558.7	60525.1	71114.7	83259.6	97243.8	110872.5	121082.3	127549.1
5°	26435.9	32819.5	42443.4	52696.3	62879.5	74094.4	87285.7	102608.8	115507.1	124798.5	130494.5
2.5°	26898.8	33500.8	43596.8	53997.9	64317.7	75922.5	89770.0	105946.5	118425.1	126857.2	132076.6
0°	27053.8	33729.1	43983.7	54435.1	64801.6	76538.9	90610.3	107080.5	119423.3	127489.6	132617.8
-2.5°	26898.8	33500.8	43596.8	53997.9	64317.7	75922.5	89770.0	105946.5	118425.1	126857.2	132076.6
-5°	26435.9	32819.5	42443.4	52696.3	62879.5	74094.4	87285.7	102608.8	115507.1	124798.5	130494.5
-7.5°	25671.1	31695.8	40544.7	50558.7	60525.1	71114.7	83259.6	97243.8	110872.5	121082.3	127549.1
-10°	24614.3	30146.3	37933.7	47629.5	57313.0	67072.8	77840.5	90172.9	104024.6	114693.9	122694.4
-12.5°	23278.2	28192.8	34653.0	43964.8	53306.2	62394.7	72085.8	82778.3	94343.9	106375.8	114693.9
-15°	21724.8	26163.5	31790.7	39708.3	48563.3	57239.4	65673.8	74684.7	84471.9	94343.9	104024.6
-17.5°	20096.2	24161.5	28880.8	34855.6	43203.7	51415.5	59257.9	66899.4	74684.7	82778.3	90172.9
-20°	18265.2	21937.1	25995.2	30956.9	37386.6	45011.4	52382.9	59257.9	65673.8	72085.8	77840.5



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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°	16304.3	19766.9	23348.2	27144.3	32015.2	38242.3	45011.4	51415.5	57239.4	62394.7	67072.8
-25°	14202.3	17432.0	20686.1	24074.7	27653.4	32015.2	37386.6	43203.7	48563.3	53306.2	57313.0
-27.5°	11772.2	15027.6	18017.0	20995.7	24074.7	27144.3	30956.9	34855.6	39708.3	43964.8	47629.5
-30°	9103.6	12371.7	15305.1	18017.0	20686.1	23348.2	25995.2	28880.8	31790.7	34653.0	37933.7
-32.5°	6137.9	9395.6	12371.7	15027.6	17432.0	19766.9	21937.1	24161.5	26163.5	28192.8	30146.3
-35°	3561.5	6137.9	9103.6	11772.2	14202.3	16304.3	18265.2	20096.2	21724.8	23278.2	24614.3
-37.5°	2794.4	3491.6	5534.3	8200.6	10587.9	12778.2	14651.3	16280.2	17726.2	19024.8	20106.1
-40°	2373.5	2658.4	3283.6	4340.4	6681.3	8847.3	10716.1	12402.0	13847.9	14996.8	15951.5
-42.5°	2151.6	2311.7	2493.9	2941.6	3458.4	4602.0	6448.4	8110.1	9525.8	10709.0	11690.4
-45°	2051.5	2120.7	2210.0	2370.3	2519.9	2916.7	3321.8	3685.6	4894.3	6055.1	7016.3
-47.5°	1850.4	1995.1	2075.0	2132.4	2209.2	2337.2	2453.7	2595.8	2891.1	3144.1	3353.3
-50°	1602.2	1751.8	1879.1	1998.4	2064.9	2110.5	2151.9	2217.2	2301.7	2374.0	2433.7
-52.5°	1328.6	1472.1	1608.8	1733.1	1835.6	1929.8	2015.3	2056.9	2086.8	2112.4	2133.5
-55°	1082.7	1200.8	1312.0	1426.2	1535.5	1635.9	1724.5	1794.6	1855.9	1908.2	1951.4
-57.5°	858.1	952.0	1044.4	1139.9	1228.2	1309.1	1388.1	1462.3	1527.2	1582.5	1628.1
-60°	657.0	727.4	807.0	882.4	952.0	1016.0	1082.7	1142.1	1194.1	1238.3	1274.8
-62.5°	481.7	540.8	600.9	657.0	708.7	761.2	813.4	859.9	900.4	935.0	963.5
-65°	336.0	382.4	425.8	466.3	504.0	546.6	585.1	619.2	649.1	674.5	695.4
-67.5°	223.2	253.7	282.2	308.7	338.9	369.3	396.8	421.2	442.5	460.6	475.5
-70°	146.5	160.6	173.8	190.2	211.8	231.5	249.2	265.0	278.7	290.4	300.0
-72.5°	95.7	104.2	113.0	123.7	133.5	142.5	150.6	157.7	164.0	169.3	173.7
-75°	58.3	63.2	70.0	76.3	82.1	87.4	92.1	96.3	100.0	103.1	105.7
-77.5°	36.2	39.5	42.6	45.5	48.2	50.6	52.8	54.7	56.4	57.8	59.0
-80°	25.3	26.4	27.5	28.5	29.4	30.3	31.0	31.7	32.3	32.8	33.2
-82.5°	17.5	18.1	18.7	19.2	19.7	20.1	20.6	20.9	21.2	21.5	21.7
-85°	11.1	11.5	11.8	12.1	12.3	12.6	12.8	13.0	13.1	13.3	13.4
-87.5°	5.6	5.7	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.6	6.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-HEG-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.6	6.6	6.5
85°	13.5	13.5	13.6	13.6	13.6	13.5	13.5	13.4	13.3	13.1	13.0
82.5°	21.9	22.0	22.1	22.1	22.1	22.0	21.9	21.7	21.5	21.2	20.9
80°	33.5	33.7	33.9	33.9	33.9	33.7	33.5	33.2	32.8	32.3	31.7
77.5°	59.9	60.6	61.0	61.1	61.0	60.6	59.9	59.0	57.8	56.4	54.7
75°	107.7	109.2	110.0	110.3	110.0	109.2	107.7	105.7	103.1	100.0	96.3
72.5°	177.1	179.5	181.0	181.5	181.0	179.5	177.1	173.7	169.3	164.0	157.7
70°	307.5	312.9	316.1	317.2	316.1	312.9	307.5	300.0	290.4	278.7	265.0
67.5°	487.1	495.4	500.4	502.1	500.4	495.4	487.1	475.5	460.6	442.5	421.2
65°	711.7	723.4	730.5	732.8	730.5	723.4	711.7	695.4	674.5	649.1	619.2
62.5°	985.7	1001.6	1011.2	1014.4	1011.2	1001.6	985.7	963.5	935.0	900.4	859.9
60°	1303.3	1323.7	1336.0	1340.1	1336.0	1323.7	1303.3	1274.8	1238.3	1194.1	1142.1
57.5°	1663.8	1689.4	1704.8	1709.9	1704.8	1689.4	1663.8	1628.1	1582.5	1527.2	1462.3
55°	1985.2	2009.4	2024.0	2028.9	2024.0	2009.4	1985.2	1951.4	1908.2	1855.9	1794.6
52.5°	2150.0	2161.9	2169.0	2171.4	2169.0	2161.9	2150.0	2133.5	2112.4	2086.8	2056.9
50°	2480.5	2514.2	2534.4	2541.2	2534.4	2514.2	2480.5	2433.7	2374.0	2301.7	2217.2
47.5°	3517.4	3635.4	3706.5	3730.3	3706.5	3635.4	3517.4	3353.3	3144.1	2891.1	2595.8
45°	7771.2	8314.5	8642.1	8751.6	8642.1	8314.5	7771.2	7016.3	6055.1	4894.3	3685.6
42.5°	12462.2	13018.1	13353.6	13465.8	13353.6	13018.1	12462.2	11690.4	10709.0	9525.8	8110.1
40°	16703.5	17245.9	17573.4	17683.0	17573.4	17245.9	16703.5	15951.5	14996.8	13847.9	12402.0
37.5°	20959.5	21575.9	21948.6	22073.3	21948.6	21575.9	20959.5	20106.1	19024.8	17726.2	16280.2
35°	25671.1	26435.9	26898.8	27053.8	26898.8	26435.9	25671.1	24614.3	23278.2	21724.8	20096.2
32.5°	31695.8	32819.5	33500.8	33729.1	33500.8	32819.5	31695.8	30146.3	28192.8	26163.5	24161.5
30°	40544.7	42443.4	43596.8	43983.7	43596.8	42443.4	40544.7	37933.7	34653.0	31790.7	28880.8
27.5°	50558.7	52696.3	53997.9	54435.1	53997.9	52696.3	50558.7	47629.5	43964.8	39708.3	34855.6
25°	60525.1	62879.5	64317.7	64801.6	64317.7	62879.5	60525.1	57313.0	53306.2	48563.3	43203.7
22.5°	71114.7	74094.4	75922.5	76538.9	75922.5	74094.4	71114.7	67072.8	62394.7	57239.4	51415.5
20°	83259.6	87285.7	89770.0	90610.3	89770.0	87285.7	83259.6	77840.5	72085.8	65673.8	59257.9
17.5°	97243.8	102608.8	105946.5	107080.5	105946.5	102608.8	97243.8	90172.9	82778.3	74684.7	66899.4
15°	110872.5	115507.1	118425.1	119423.3	118425.1	115507.1	110872.5	104024.6	94343.9	84471.9	74684.7
12.5°	121082.3	124798.5	126857.2	127489.6	126857.2	124798.5	121082.3	114693.9	106375.8	94343.9	82778.3
10°	127549.1	130494.5	132076.6	132617.8	132076.6	130494.5	127549.1	122694.4	114693.9	104024.6	90172.9
7.5°	131567.3	134309.1	135956.0	136536.4	135956.0	134309.1	131567.3	127549.1	121082.3	110872.5	97243.8
5°	134309.1	137159.9	138928.4	139467.7	138928.4	137159.9	134309.1	130494.5	124798.5	115507.1	102608.8
2.5°	135956.0	138928.4	139778.3	139749.3	139778.3	138928.4	135956.0	132076.6	126857.2	118425.1	105946.5
0°	136536.4	139467.7	139749.3	139209.9	139749.3	139467.7	136536.4	132617.8	127489.6	119423.3	107080.5
-2.5°	135956.0	138928.4	139778.3	139749.3	139778.3	138928.4	135956.0	132076.6	126857.2	118425.1	105946.5
-5°	134309.1	137159.9	138928.4	139467.7	138928.4	137159.9	134309.1	130494.5	124798.5	115507.1	102608.8
-7.5°	131567.3	134309.1	135956.0	136536.4	135956.0	134309.1	131567.3	127549.1	121082.3	110872.5	97243.8
-10°	127549.1	130494.5	132076.6	132617.8	132076.6	130494.5	127549.1	122694.4	114693.9	104024.6	90172.9
-12.5°	121082.3	124798.5	126857.2	127489.6	126857.2	124798.5	121082.3	114693.9	106375.8	94343.9	82778.3
-15°	110872.5	115507.1	118425.1	119423.3	118425.1	115507.1	110872.5	104024.6	94343.9	84471.9	74684.7
-17.5°	97243.8	102608.8	105946.5	107080.5	105946.5	102608.8	97243.8	90172.9	82778.3	74684.7	66899.4
-20°	83259.6	87285.7	89770.0	90610.3	89770.0	87285.7	83259.6	77840.5	72085.8	65673.8	59257.9



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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°	71114.7	74094.4	75922.5	76538.9	75922.5	74094.4	71114.7	67072.8	62394.7	57239.4	51415.5
-25°	60525.1	62879.5	64317.7	64801.6	64317.7	62879.5	60525.1	57313.0	53306.2	48563.3	43203.7
-27.5°	50558.7	52696.3	53997.9	54435.1	53997.9	52696.3	50558.7	47629.5	43964.8	39708.3	34855.6
-30°	40544.7	42443.4	43596.8	43983.7	43596.8	42443.4	40544.7	37933.7	34653.0	31790.7	28880.8
-32.5°	31695.8	32819.5	33500.8	33729.1	33500.8	32819.5	31695.8	30146.3	28192.8	26163.5	24161.5
-35°	25671.1	26435.9	26898.8	27053.8	26898.8	26435.9	25671.1	24614.3	23278.2	21724.8	20096.2
-37.5°	20959.5	21575.9	21948.6	22073.3	21948.6	21575.9	20959.5	20106.1	19024.8	17726.2	16280.2
-40°	16703.5	17245.9	17573.4	17683.0	17573.4	17245.9	16703.5	15951.5	14996.8	13847.9	12402.0
-42.5°	12462.2	13018.1	13353.6	13465.8	13353.6	13018.1	12462.2	11690.4	10709.0	9525.8	8110.1
-45°	7771.2	8314.5	8642.1	8751.6	8642.1	8314.5	7771.2	7016.3	6055.1	4894.3	3685.6
-47.5°	3517.4	3635.4	3706.5	3730.3	3706.5	3635.4	3517.4	3353.3	3144.1	2891.1	2595.8
-50°	2480.5	2514.2	2534.4	2541.2	2534.4	2514.2	2480.5	2433.7	2374.0	2301.7	2217.2
-52.5°	2150.0	2161.9	2169.0	2171.4	2169.0	2161.9	2150.0	2133.5	2112.4	2086.8	2056.9
-55°	1985.2	2009.4	2024.0	2028.9	2024.0	2009.4	1985.2	1951.4	1908.2	1855.9	1794.6
-57.5°	1663.8	1689.4	1704.8	1709.9	1704.8	1689.4	1663.8	1628.1	1582.5	1527.2	1462.3
-60°	1303.3	1323.7	1336.0	1340.1	1336.0	1323.7	1303.3	1274.8	1238.3	1194.1	1142.1
-62.5°	985.7	1001.6	1011.2	1014.4	1011.2	1001.6	985.7	963.5	935.0	900.4	859.9
-65°	711.7	723.4	730.5	732.8	730.5	723.4	711.7	695.4	674.5	649.1	619.2
-67.5°	487.1	495.4	500.4	502.1	500.4	495.4	487.1	475.5	460.6	442.5	421.2
-70°	307.5	312.9	316.1	317.2	316.1	312.9	307.5	300.0	290.4	278.7	265.0
-72.5°	177.1	179.5	181.0	181.5	181.0	179.5	177.1	173.7	169.3	164.0	157.7
-75°	107.7	109.2	110.0	110.3	110.0	109.2	107.7	105.7	103.1	100.0	96.3
-77.5°	59.9	60.6	61.0	61.1	61.0	60.6	59.9	59.0	57.8	56.4	54.7
-80°	33.5	33.7	33.9	33.9	33.9	33.7	33.5	33.2	32.8	32.3	31.7
-82.5°	21.9	22.0	22.1	22.1	22.1	22.0	21.9	21.7	21.5	21.2	20.9
-85°	13.5	13.5	13.6	13.6	13.6	13.5	13.5	13.4	13.3	13.1	13.0
-87.5°	6.7	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.6	6.6	6.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	6.3	6.2	6.0	5.9	5.7	5.6	5.4	5.2	5.0	4.8
85°	12.8	12.6	12.3	12.1	11.8	11.5	11.1	10.8	10.4	10.0	9.6
82.5°	20.6	20.1	19.7	19.2	18.7	18.1	17.5	16.8	16.1	15.4	14.6
80°	31.0	30.3	29.4	28.5	27.5	26.4	25.3	24.1	22.8	21.6	20.6
77.5°	52.8	50.6	48.2	45.5	42.6	39.5	36.2	33.4	31.7	30.0	28.3
75°	92.1	87.4	82.1	76.3	70.0	63.2	58.3	54.0	49.5	44.8	39.8
72.5°	150.6	142.5	133.5	123.7	113.0	104.2	95.7	86.7	77.2	67.2	58.7
70°	249.2	231.5	211.8	190.2	173.8	160.6	146.5	131.5	115.7	102.5	90.5
67.5°	396.8	369.3	338.9	308.7	282.2	253.7	223.2	191.0	168.6	149.8	130.2
65°	585.1	546.6	504.0	466.3	425.8	382.4	336.0	294.9	256.9	217.0	178.3
62.5°	813.4	761.2	708.7	657.0	600.9	540.8	481.7	427.4	370.1	312.0	266.0
60°	1082.7	1016.0	952.0	882.4	807.0	727.4	657.0	582.4	504.0	437.9	369.3
57.5°	1388.1	1309.1	1228.2	1139.9	1044.4	952.0	858.1	758.8	668.7	579.3	489.5
55°	1724.5	1635.9	1535.5	1426.2	1312.0	1200.8	1082.7	965.7	852.7	734.7	633.8
52.5°	2015.3	1929.8	1835.6	1733.1	1608.8	1472.1	1328.6	1194.1	1053.1	920.7	788.7
50°	2151.9	2110.5	2064.9	1998.4	1879.1	1751.8	1602.2	1437.9	1274.8	1117.1	961.9
47.5°	2453.7	2337.2	2209.2	2132.4	2075.0	1995.1	1850.4	1696.7	1512.7	1323.7	1149.4
45°	3321.8	2916.7	2519.9	2370.3	2210.0	2120.7	2051.5	1917.1	1747.9	1550.4	1340.1
42.5°	6448.4	4602.0	3458.4	2941.6	2493.9	2311.7	2151.6	2074.4	1950.7	1764.5	1550.4
40°	10716.1	8847.3	6681.3	4340.4	3283.6	2658.4	2373.5	2167.2	2082.0	1950.7	1747.9
37.5°	14651.3	12778.2	10587.9	8200.6	5534.3	3491.6	2794.4	2394.3	2167.2	2074.4	1917.1
35°	18265.2	16304.3	14202.3	11772.2	9103.6	6137.9	3561.5	2794.4	2373.5	2151.6	2051.5
32.5°	21937.1	19766.9	17432.0	15027.6	12371.7	9395.6	6137.9	3491.6	2658.4	2311.7	2120.7
30°	25995.2	23348.2	20686.1	18017.0	15305.1	12371.7	9103.6	5534.3	3283.6	2493.9	2210.0
27.5°	30956.9	27144.3	24074.7	20995.7	18017.0	15027.6	11772.2	8200.6	4340.4	2941.6	2370.3
25°	37386.6	32015.2	27653.4	24074.7	20686.1	17432.0	14202.3	10587.9	6681.3	3458.4	2519.9
22.5°	45011.4	38242.3	32015.2	27144.3	23348.2	19766.9	16304.3	12778.2	8847.3	4602.0	2916.7
20°	52382.9	45011.4	37386.6	30956.9	25995.2	21937.1	18265.2	14651.3	10716.1	6448.4	3321.8
17.5°	59257.9	51415.5	43203.7	34855.6	28880.8	24161.5	20096.2	16280.2	12402.0	8110.1	3685.6
15°	65673.8	57239.4	48563.3	39708.3	31790.7	26163.5	21724.8	17726.2	13847.9	9525.8	4894.3
12.5°	72085.8	62394.7	53306.2	43964.8	34653.0	28192.8	23278.2	19024.8	14996.8	10709.0	6055.1
10°	77840.5	67072.8	57313.0	47629.5	37933.7	30146.3	24614.3	20106.1	15951.5	11690.4	7016.3
7.5°	83259.6	71114.7	60525.1	50558.7	40544.7	31695.8	25671.1	20959.5	16703.5	12462.2	7771.2
5°	87285.7	74094.4	62879.5	52696.3	42443.4	32819.5	26435.9	21575.9	17245.9	13018.1	8314.5
2.5°	89770.0	75922.5	64317.7	53997.9	43596.8	33500.8	26898.8	21948.6	17573.4	13353.6	8642.1
0°	90610.3	76538.9	64801.6	54435.1	43983.7	33729.1	27053.8	22073.3	17683.0	13465.8	8751.6
-2.5°	89770.0	75922.5	64317.7	53997.9	43596.8	33500.8	26898.8	21948.6	17573.4	13353.6	8642.1
-5°	87285.7	74094.4	62879.5	52696.3	42443.4	32819.5	26435.9	21575.9	17245.9	13018.1	8314.5
-7.5°	83259.6	71114.7	60525.1	50558.7	40544.7	31695.8	25671.1	20959.5	16703.5	12462.2	7771.2
-10°	77840.5	67072.8	57313.0	47629.5	37933.7	30146.3	24614.3	20106.1	15951.5	11690.4	7016.3
-12.5°	72085.8	62394.7	53306.2	43964.8	34653.0	28192.8	23278.2	19024.8	14996.8	10709.0	6055.1
-15°	65673.8	57239.4	48563.3	39708.3	31790.7	26163.5	21724.8	17726.2	13847.9	9525.8	4894.3
-17.5°	59257.9	51415.5	43203.7	34855.6	28880.8	24161.5	20096.2	16280.2	12402.0	8110.1	3685.6
-20°	52382.9	45011.4	37386.6	30956.9	25995.2	21937.1	18265.2	14651.3	10716.1	6448.4	3321.8



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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°	45011.4	38242.3	32015.2	27144.3	23348.2	19766.9	16304.3	12778.2	8847.3	4602.0	2916.7
-25°	37386.6	32015.2	27653.4	24074.7	20686.1	17432.0	14202.3	10587.9	6681.3	3458.4	2519.9
-27.5°	30956.9	27144.3	24074.7	20995.7	18017.0	15027.6	11772.2	8200.6	4340.4	2941.6	2370.3
-30°	25995.2	23348.2	20686.1	18017.0	15305.1	12371.7	9103.6	5534.3	3283.6	2493.9	2210.0
-32.5°	21937.1	19766.9	17432.0	15027.6	12371.7	9395.6	6137.9	3491.6	2658.4	2311.7	2120.7
-35°	18265.2	16304.3	14202.3	11772.2	9103.6	6137.9	3561.5	2794.4	2373.5	2151.6	2051.5
-37.5°	14651.3	12778.2	10587.9	8200.6	5534.3	3491.6	2794.4	2394.3	2167.2	2074.4	1917.1
-40°	10716.1	8847.3	6681.3	4340.4	3283.6	2658.4	2373.5	2167.2	2082.0	1950.7	1747.9
-42.5°	6448.4	4602.0	3458.4	2941.6	2493.9	2311.7	2151.6	2074.4	1950.7	1764.5	1550.4
-45°	3321.8	2916.7	2519.9	2370.3	2210.0	2120.7	2051.5	1917.1	1747.9	1550.4	1340.1
-47.5°	2453.7	2337.2	2209.2	2132.4	2075.0	1995.1	1850.4	1696.7	1512.7	1323.7	1149.4
-50°	2151.9	2110.5	2064.9	1998.4	1879.1	1751.8	1602.2	1437.9	1274.8	1117.1	961.9
-52.5°	2015.3	1929.8	1835.6	1733.1	1608.8	1472.1	1328.6	1194.1	1053.1	920.7	788.7
-55°	1724.5	1635.9	1535.5	1426.2	1312.0	1200.8	1082.7	965.7	852.7	734.7	633.8
-57.5°	1388.1	1309.1	1228.2	1139.9	1044.4	952.0	858.1	758.8	668.7	579.3	489.5
-60°	1082.7	1016.0	952.0	882.4	807.0	727.4	657.0	582.4	504.0	437.9	369.3
-62.5°	813.4	761.2	708.7	657.0	600.9	540.8	481.7	427.4	370.1	312.0	266.0
-65°	585.1	546.6	504.0	466.3	425.8	382.4	336.0	294.9	256.9	217.0	178.3
-67.5°	396.8	369.3	338.9	308.7	282.2	253.7	223.2	191.0	168.6	149.8	130.2
-70°	249.2	231.5	211.8	190.2	173.8	160.6	146.5	131.5	115.7	102.5	90.5
-72.5°	150.6	142.5	133.5	123.7	113.0	104.2	95.7	86.7	77.2	67.2	58.7
-75°	92.1	87.4	82.1	76.3	70.0	63.2	58.3	54.0	49.5	44.8	39.8
-77.5°	52.8	50.6	48.2	45.5	42.6	39.5	36.2	33.4	31.7	30.0	28.3
-80°	31.0	30.3	29.4	28.5	27.5	26.4	25.3	24.1	22.8	21.6	20.6
-82.5°	20.6	20.1	19.7	19.2	18.7	18.1	17.5	16.8	16.1	15.4	14.6
-85°	12.8	12.6	12.3	12.1	11.8	11.5	11.1	10.8	10.4	10.0	9.6
-87.5°	6.4	6.3	6.2	6.0	5.9	5.7	5.6	5.4	5.2	5.0	4.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-HEG-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	4.4	4.1	3.9	3.7	3.4	3.1	2.9	2.6	2.3	2.0
85°	9.2	8.7	8.3	7.8	7.3	6.8	6.3	5.7	5.2	4.6	4.1
82.5°	13.8	13.1	12.4	11.7	10.9	10.2	9.4	8.6	7.8	7.0	6.1
80°	19.5	18.4	17.2	16.0	14.8	13.5	12.5	11.4	10.4	9.3	8.1
77.5°	26.4	24.4	22.4	20.8	19.3	17.7	16.1	14.4	12.9	11.5	10.2
75°	34.7	31.9	29.5	27.0	24.4	21.9	19.9	18.0	15.9	13.9	12.1
72.5°	52.6	46.4	39.9	33.6	30.6	27.5	24.4	21.4	19.1	16.7	14.2
70°	78.0	65.0	55.8	48.2	40.3	33.2	29.6	25.9	22.2	19.4	16.7
67.5°	110.0	95.3	80.2	64.6	54.2	45.1	35.8	30.6	26.4	22.2	19.1
65°	155.6	132.0	108.5	91.2	73.4	57.8	47.5	37.0	30.6	25.9	21.4
62.5°	218.2	174.8	148.1	120.5	97.8	77.8	59.0	47.5	35.8	29.6	24.4
60°	303.2	249.2	193.5	157.7	126.9	100.0	77.8	57.8	45.1	33.2	27.5
57.5°	412.2	332.3	267.9	205.9	161.0	126.9	97.8	73.4	54.2	40.3	30.6
55°	529.7	438.1	349.5	274.2	205.9	157.7	120.5	91.2	64.6	48.2	33.6
52.5°	666.8	551.5	446.8	349.5	267.9	193.5	148.1	108.5	80.2	55.8	39.9
50°	816.0	677.8	551.5	438.1	332.3	249.2	174.8	132.0	95.3	65.0	46.4
47.5°	975.7	816.0	666.8	529.7	412.2	303.2	218.2	155.6	110.0	78.0	52.6
45°	1149.4	961.9	788.7	633.8	489.5	369.3	266.0	178.3	130.2	90.5	58.7
42.5°	1323.7	1117.1	920.7	734.7	579.3	437.9	312.0	217.0	149.8	102.5	67.2
40°	1512.7	1274.8	1053.1	852.7	668.7	504.0	370.1	256.9	168.6	115.7	77.2
37.5°	1696.7	1437.9	1194.1	965.7	758.8	582.4	427.4	294.9	191.0	131.5	86.7
35°	1850.4	1602.2	1328.6	1082.7	858.1	657.0	481.7	336.0	223.2	146.5	95.7
32.5°	1995.1	1751.8	1472.1	1200.8	952.0	727.4	540.8	382.4	253.7	160.6	104.2
30°	2075.0	1879.1	1608.8	1312.0	1044.4	807.0	600.9	425.8	282.2	173.8	113.0
27.5°	2132.4	1998.4	1733.1	1426.2	1139.9	882.4	657.0	466.3	308.7	190.2	123.7
25°	2209.2	2064.9	1835.6	1535.5	1228.2	952.0	708.7	504.0	338.9	211.8	133.5
22.5°	2337.2	2110.5	1929.8	1635.9	1309.1	1016.0	761.2	546.6	369.3	231.5	142.5
20°	2453.7	2151.9	2015.3	1724.5	1388.1	1082.7	813.4	585.1	396.8	249.2	150.6
17.5°	2595.8	2217.2	2056.9	1794.6	1462.3	1142.1	859.9	619.2	421.2	265.0	157.7
15°	2891.1	2301.7	2086.8	1855.9	1527.2	1194.1	900.4	649.1	442.5	278.7	164.0
12.5°	3144.1	2374.0	2112.4	1908.2	1582.5	1238.3	935.0	674.5	460.6	290.4	169.3
10°	3353.3	2433.7	2133.5	1951.4	1628.1	1274.8	963.5	695.4	475.5	300.0	173.7
7.5°	3517.4	2480.5	2150.0	1985.2	1663.8	1303.3	985.7	711.7	487.1	307.5	177.1
5°	3635.4	2514.2	2161.9	2009.4	1689.4	1323.7	1001.6	723.4	495.4	312.9	179.5
2.5°	3706.5	2534.4	2169.0	2024.0	1704.8	1336.0	1011.2	730.5	500.4	316.1	181.0
0°	3730.3	2541.2	2171.4	2028.9	1709.9	1340.1	1014.4	732.8	502.1	317.2	181.5
-2.5°	3706.5	2534.4	2169.0	2024.0	1704.8	1336.0	1011.2	730.5	500.4	316.1	181.0
-5°	3635.4	2514.2	2161.9	2009.4	1689.4	1323.7	1001.6	723.4	495.4	312.9	179.5
-7.5°	3517.4	2480.5	2150.0	1985.2	1663.8	1303.3	985.7	711.7	487.1	307.5	177.1
-10°	3353.3	2433.7	2133.5	1951.4	1628.1	1274.8	963.5	695.4	475.5	300.0	173.7
-12.5°	3144.1	2374.0	2112.4	1908.2	1582.5	1238.3	935.0	674.5	460.6	290.4	169.3
-15°	2891.1	2301.7	2086.8	1855.9	1527.2	1194.1	900.4	649.1	442.5	278.7	164.0
-17.5°	2595.8	2217.2	2056.9	1794.6	1462.3	1142.1	859.9	619.2	421.2	265.0	157.7
-20°	2453.7	2151.9	2015.3	1724.5	1388.1	1082.7	813.4	585.1	396.8	249.2	150.6



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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°	2337.2	2110.5	1929.8	1635.9	1309.1	1016.0	761.2	546.6	369.3	231.5	142.5
-25°	2209.2	2064.9	1835.6	1535.5	1228.2	952.0	708.7	504.0	338.9	211.8	133.5
-27.5°	2132.4	1998.4	1733.1	1426.2	1139.9	882.4	657.0	466.3	308.7	190.2	123.7
-30°	2075.0	1879.1	1608.8	1312.0	1044.4	807.0	600.9	425.8	282.2	173.8	113.0
-32.5°	1995.1	1751.8	1472.1	1200.8	952.0	727.4	540.8	382.4	253.7	160.6	104.2
-35°	1850.4	1602.2	1328.6	1082.7	858.1	657.0	481.7	336.0	223.2	146.5	95.7
-37.5°	1696.7	1437.9	1194.1	965.7	758.8	582.4	427.4	294.9	191.0	131.5	86.7
-40°	1512.7	1274.8	1053.1	852.7	668.7	504.0	370.1	256.9	168.6	115.7	77.2
-42.5°	1323.7	1117.1	920.7	734.7	579.3	437.9	312.0	217.0	149.8	102.5	67.2
-45°	1149.4	961.9	788.7	633.8	489.5	369.3	266.0	178.3	130.2	90.5	58.7
-47.5°	975.7	816.0	666.8	529.7	412.2	303.2	218.2	155.6	110.0	78.0	52.6
-50°	816.0	677.8	551.5	438.1	332.3	249.2	174.8	132.0	95.3	65.0	46.4
-52.5°	666.8	551.5	446.8	349.5	267.9	193.5	148.1	108.5	80.2	55.8	39.9
-55°	529.7	438.1	349.5	274.2	205.9	157.7	120.5	91.2	64.6	48.2	33.6
-57.5°	412.2	332.3	267.9	205.9	161.0	126.9	97.8	73.4	54.2	40.3	30.6
-60°	303.2	249.2	193.5	157.7	126.9	100.0	77.8	57.8	45.1	33.2	27.5
-62.5°	218.2	174.8	148.1	120.5	97.8	77.8	59.0	47.5	35.8	29.6	24.4
-65°	155.6	132.0	108.5	91.2	73.4	57.8	47.5	37.0	30.6	25.9	21.4
-67.5°	110.0	95.3	80.2	64.6	54.2	45.1	35.8	30.6	26.4	22.2	19.1
-70°	78.0	65.0	55.8	48.2	40.3	33.2	29.6	25.9	22.2	19.4	16.7
-72.5°	52.6	46.4	39.9	33.6	30.6	27.5	24.4	21.4	19.1	16.7	14.2
-75°	34.7	31.9	29.5	27.0	24.4	21.9	19.9	18.0	15.9	13.9	12.1
-77.5°	26.4	24.4	22.4	20.8	19.3	17.7	16.1	14.4	12.9	11.5	10.2
-80°	19.5	18.4	17.2	16.0	14.8	13.5	12.5	11.4	10.4	9.3	8.1
-82.5°	13.8	13.1	12.4	11.7	10.9	10.2	9.4	8.6	7.8	7.0	6.1
-85°	9.2	8.7	8.3	7.8	7.3	6.8	6.3	5.7	5.2	4.6	4.1
-87.5°	4.6	4.4	4.1	3.9	3.7	3.4	3.1	2.9	2.6	2.3	2.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.5	1.2	0.9	0.6	0.3	0.0
85°	3.5	2.9	2.4	1.8	1.2	0.6	0.0
82.5°	5.3	4.4	3.5	2.7	1.8	0.9	0.0
80°	7.0	5.9	4.7	3.5	2.4	1.2	0.0
77.5°	8.7	7.3	5.9	4.4	2.9	1.5	0.0
75°	10.4	8.7	7.0	5.3	3.5	1.8	0.0
72.5°	12.1	10.2	8.1	6.1	4.1	2.0	0.0
70°	13.9	11.5	9.3	7.0	4.6	2.3	0.0
67.5°	15.9	12.9	10.4	7.8	5.2	2.6	0.0
65°	18.0	14.4	11.4	8.6	5.7	2.9	0.0
62.5°	19.9	16.1	12.5	9.4	6.3	3.1	0.0
60°	21.9	17.7	13.5	10.2	6.8	3.4	0.0
57.5°	24.4	19.3	14.8	10.9	7.3	3.7	0.0
55°	27.0	20.8	16.0	11.7	7.8	3.9	0.0
52.5°	29.5	22.4	17.2	12.4	8.3	4.1	0.0
50°	31.9	24.4	18.4	13.1	8.7	4.4	0.0
47.5°	34.7	26.4	19.5	13.8	9.2	4.6	0.0
45°	39.8	28.3	20.6	14.6	9.6	4.8	0.0
42.5°	44.8	30.0	21.6	15.4	10.0	5.0	0.0
40°	49.5	31.7	22.8	16.1	10.4	5.2	0.0
37.5°	54.0	33.4	24.1	16.8	10.8	5.4	0.0
35°	58.3	36.2	25.3	17.5	11.1	5.6	0.0
32.5°	63.2	39.5	26.4	18.1	11.5	5.7	0.0
30°	70.0	42.6	27.5	18.7	11.8	5.9	0.0
27.5°	76.3	45.5	28.5	19.2	12.1	6.0	0.0
25°	82.1	48.2	29.4	19.7	12.3	6.2	0.0
22.5°	87.4	50.6	30.3	20.1	12.6	6.3	0.0
20°	92.1	52.8	31.0	20.6	12.8	6.4	0.0
17.5°	96.3	54.7	31.7	20.9	13.0	6.5	0.0
15°	100.0	56.4	32.3	21.2	13.1	6.6	0.0
12.5°	103.1	57.8	32.8	21.5	13.3	6.6	0.0
10°	105.7	59.0	33.2	21.7	13.4	6.7	0.0
7.5°	107.7	59.9	33.5	21.9	13.5	6.7	0.0
5°	109.2	60.6	33.7	22.0	13.5	6.8	0.0
2.5°	110.0	61.0	33.9	22.1	13.6	6.8	0.0
0°	110.3	61.1	33.9	22.1	13.6	6.8	0.0
-2.5°	110.0	61.0	33.9	22.1	13.6	6.8	0.0
-5°	109.2	60.6	33.7	22.0	13.5	6.8	0.0
-7.5°	107.7	59.9	33.5	21.9	13.5	6.7	0.0
-10°	105.7	59.0	33.2	21.7	13.4	6.7	0.0
-12.5°	103.1	57.8	32.8	21.5	13.3	6.6	0.0
-15°	100.0	56.4	32.3	21.2	13.1	6.6	0.0
-17.5°	96.3	54.7	31.7	20.9	13.0	6.5	0.0
-20°	92.1	52.8	31.0	20.6	12.8	6.4	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	87.4	50.6	30.3	20.1	12.6	6.3	0.0
-25°	82.1	48.2	29.4	19.7	12.3	6.2	0.0
-27.5°	76.3	45.5	28.5	19.2	12.1	6.0	0.0
-30°	70.0	42.6	27.5	18.7	11.8	5.9	0.0
-32.5°	63.2	39.5	26.4	18.1	11.5	5.7	0.0
-35°	58.3	36.2	25.3	17.5	11.1	5.6	0.0
-37.5°	54.0	33.4	24.1	16.8	10.8	5.4	0.0
-40°	49.5	31.7	22.8	16.1	10.4	5.2	0.0
-42.5°	44.8	30.0	21.6	15.4	10.0	5.0	0.0
-45°	39.8	28.3	20.6	14.6	9.6	4.8	0.0
-47.5°	34.7	26.4	19.5	13.8	9.2	4.6	0.0
-50°	31.9	24.4	18.4	13.1	8.7	4.4	0.0
-52.5°	29.5	22.4	17.2	12.4	8.3	4.1	0.0
-55°	27.0	20.8	16.0	11.7	7.8	3.9	0.0
-57.5°	24.4	19.3	14.8	10.9	7.3	3.7	0.0
-60°	21.9	17.7	13.5	10.2	6.8	3.4	0.0
-62.5°	19.9	16.1	12.5	9.4	6.3	3.1	0.0
-65°	18.0	14.4	11.4	8.6	5.7	2.9	0.0
-67.5°	15.9	12.9	10.4	7.8	5.2	2.6	0.0
-70°	13.9	11.5	9.3	7.0	4.6	2.3	0.0
-72.5°	12.1	10.2	8.1	6.1	4.1	2.0	0.0
-75°	10.4	8.7	7.0	5.3	3.5	1.8	0.0
-77.5°	8.7	7.3	5.9	4.4	2.9	1.5	0.0
-80°	7.0	5.9	4.7	3.5	2.4	1.2	0.0
-82.5°	5.3	4.4	3.5	2.7	1.8	0.9	0.0
-85°	3.5	2.9	2.4	1.8	1.2	0.6	0.0
-87.5°	1.8	1.5	1.2	0.9	0.6	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(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

