

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: P735985 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-70-4S-VHE-S**

Issue Date: 1/29/2024

Test Information

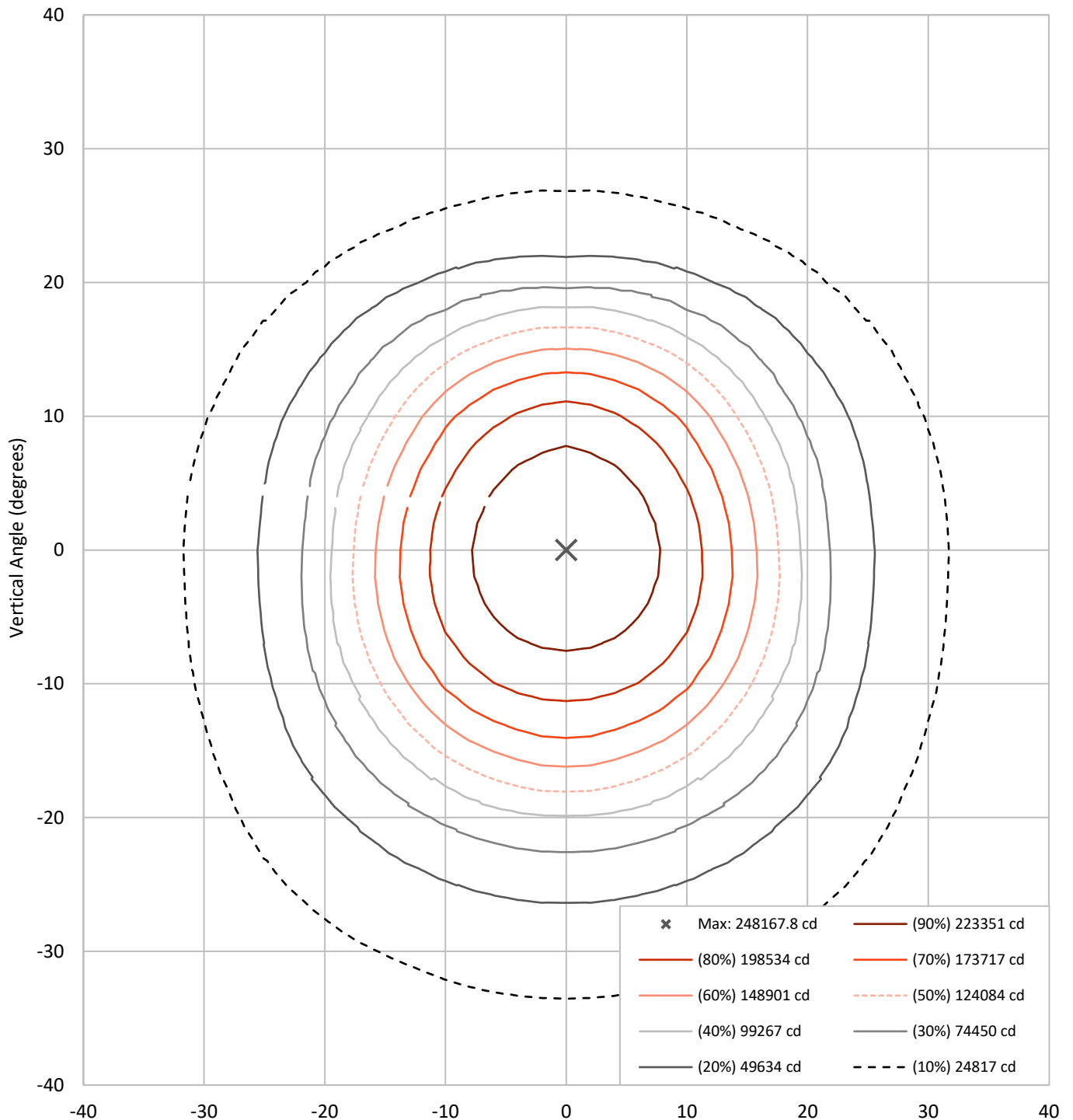
Test Method: LM-79-08
Report Number: P735985 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-40-70-4S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	102945 lumens	Max Intensity:	248167.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	35.2°H x 34.7°V	Field Angle (10%):	63.4°H x 60.3°V
Beam Lumens:	55253.6 lumens	Field Lumens:	89914.2 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%
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





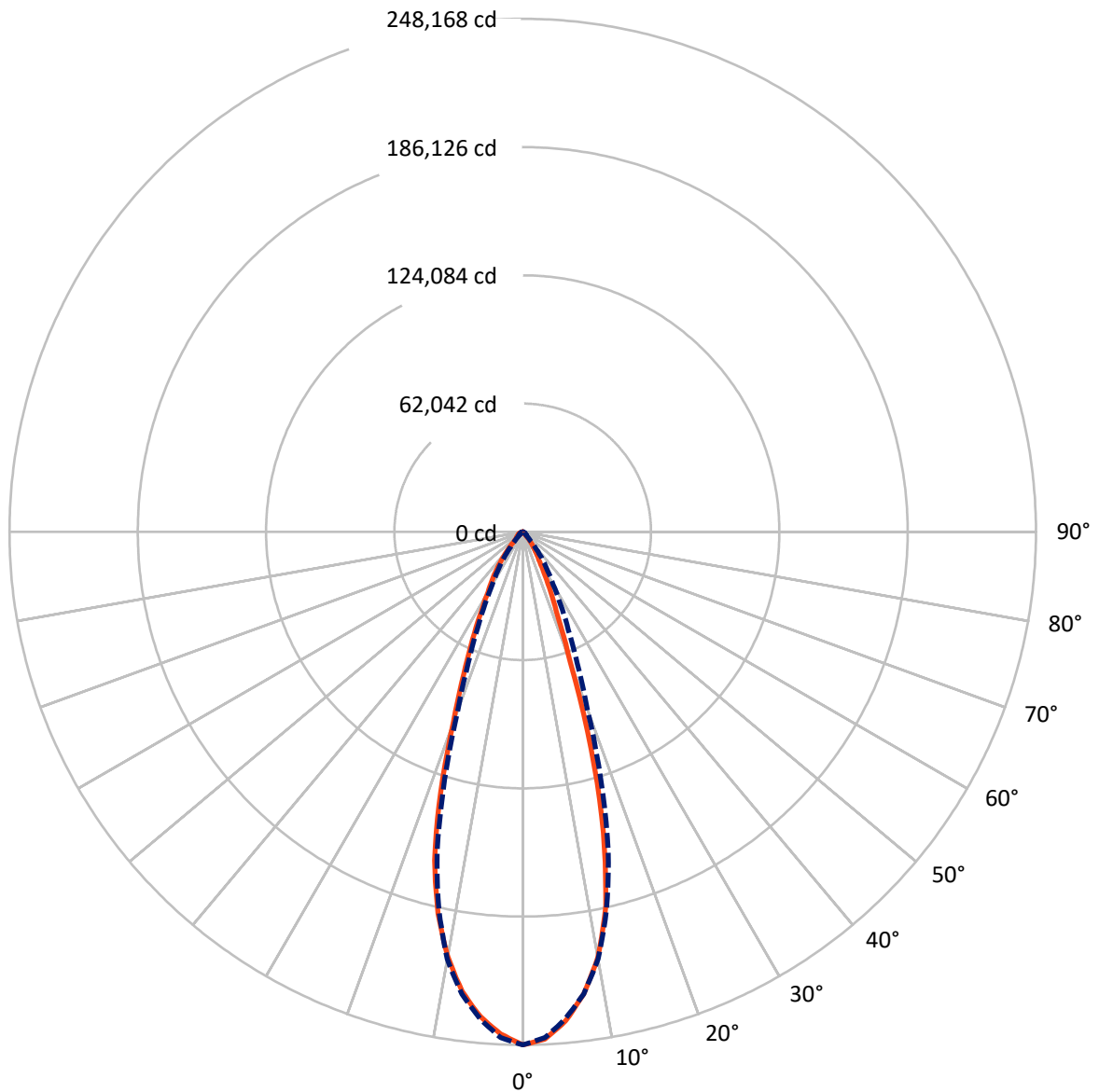
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Lumen Table

90	0.3		1.1		1.9		2.7		3.0		2.7		1.9		1.1		0.3
80	0.3		1.1		1.9		2.7		3.0		2.7		1.9		1.1		0.3
70	0.4	0.2	0.3	0.6	0.9	0.7	0.7	0.8	0.8	0.7	0.7	0.9	0.6	0.3	0.2	0.4	
60		0.5	0.8	1.4	1.4	1.0	1.3	1.4	1.4	1.3	1.0	1.4	1.4	0.8	0.5		
50	1.0	1.3	2.9	5.9	10.7	17.1	25.0	32.2	32.2	25.0	17.1	10.7	5.9	2.9	1.3	1.0	
40		3.1	9.8	18.7	30.8	71.1	158.9	257.4	257.4	158.9	71.1	30.8	18.7	9.8	3.1		
30	2.3	5.4	16.3	31.7	99.4	305.6	666.9	1011.3	1011.3	666.9	305.6	99.4	31.7	16.3	5.4	2.3	
20		7.3	21.4	50.7	258.6	857.6	2291.4	4071.6	4071.6	2291.4	857.6	258.6	50.7	21.4	7.3		
10	3.3	9.0	25.1	70.2	404.7	1407.6	4166.1	6671.2	6671.2	4166.1	1407.6	404.7	70.2	25.1	9.0	3.3	
0		10.0	27.9	78.5	433.8	1478.4	4367.6	6724.0	6724.0	4367.6	1478.4	433.8	78.5	27.9	10.0		
-10	3.8	10.3	29.5	72.3	346.2	1092.0	2749.3	4516.8	4516.8	2749.3	1092.0	346.2	72.3	29.5	10.3	3.8	
-20		9.6	29.4	62.0	190.5	606.5	1190.8	1719.6	1719.6	1190.8	606.5	190.5	62.0	29.4	9.6		
-30	3.6	8.2	26.5	51.9	91.5	225.1	453.4	626.8	626.8	453.4	225.1	91.5	51.9	26.5	8.2	3.6	
-40		6.4	19.8	41.5	65.4	90.8	123.9	158.6	158.6	123.9	90.8	65.4	41.5	19.8	6.4		
-50	3.0	4.8	12.4	27.0	46.5	62.8	75.8	85.1	85.1	75.8	62.8	46.5	27.0	12.4	4.8	3.0	
-60		3.6	7.3	13.7	23.4	33.1	42.1	48.1	48.1	42.1	33.1	23.4	13.7	7.3	3.6		
-70	2.2	13.0	29.4	47.5	58.4	47.5	29.4	13.0	2.2	2.2							
-80		13.0	29.4	47.5	58.4	47.5	29.4	13.0	2.2								
-90	0.3		1.1		1.9		2.7		3.0		2.7		1.9		1.1		0.3

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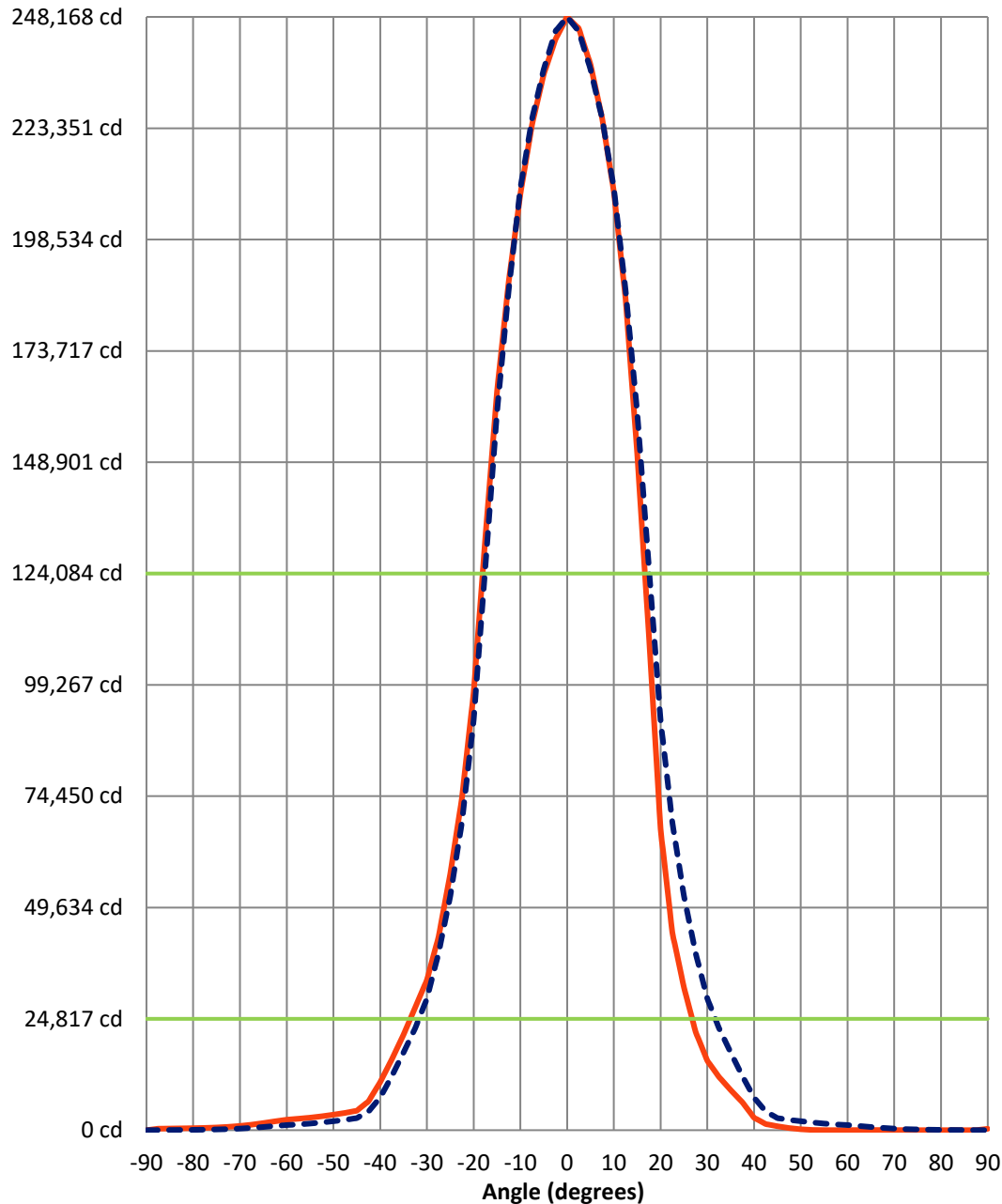
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 35.2°
 V Angle: 34.7°
 Lumens: 55253.6
 Efficiency: 53.7%

Field:
 H Angle: 63.4°
 V Angle: 60.3°
 Lumens: 89914.2
 Efficiency: 87.3%

Spill:
 Lumens: 13030.8
 Efficiency: 12.7%

— 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°	11.0	20.8	30.7	50.3	70.0	87.8	105.6	119.7	133.8	143.0	152.2
87.5°	11.0	10.0	8.8	8.9	9.0	9.0	8.9	8.4	7.8	7.9	7.9
85°	11.0	10.2	9.0	9.2	9.4	9.4	9.2	8.7	8.2	8.3	8.4
82.5°	11.0	10.5	9.3	9.5	9.8	9.8	9.6	9.1	8.7	8.9	8.9
80°	11.0	10.7	9.5	9.8	10.3	10.2	9.9	9.7	9.5	9.6	9.5
77.5°	11.0	10.9	9.7	10.2	10.7	10.7	10.6	10.5	10.4	10.3	9.9
75°	11.0	11.1	10.0	10.5	11.1	11.2	11.3	11.3	11.2	10.8	10.1
72.5°	11.0	11.4	10.3	10.8	11.5	11.8	11.9	12.0	11.8	11.2	10.3
70°	11.0	11.6	10.6	11.1	12.0	12.3	12.6	12.7	12.4	11.7	11.3
67.5°	11.0	11.8	10.9	11.6	12.5	12.9	13.4	13.3	13.0	12.7	12.4
65°	11.0	12.1	11.2	12.1	13.0	13.7	14.4	14.1	14.5	13.8	13.9
62.5°	11.0	12.3	11.6	12.6	13.6	14.8	15.4	15.7	16.2	15.3	16.6
60°	11.0	12.6	12.0	13.1	14.1	15.9	16.5	17.8	18.1	19.4	19.8
57.5°	11.0	12.8	12.7	13.6	15.4	17.2	18.8	20.2	22.6	24.1	26.8
55°	11.0	13.1	13.4	14.2	16.8	18.4	21.4	22.9	28.0	30.5	36.0
52.5°	11.0	13.3	14.2	14.7	18.2	20.0	24.1	28.3	33.8	41.1	45.9
50°	11.0	13.6	15.0	15.3	19.7	22.8	26.9	34.3	41.4	52.5	59.5
47.5°	11.0	13.9	15.8	16.0	21.2	25.7	30.3	40.5	52.7	64.7	74.8
45°	11.0	14.1	16.7	17.2	22.9	28.7	35.9	46.9	64.6	79.8	91.2
42.5°	11.0	14.4	17.6	18.5	24.5	31.9	41.6	56.0	77.0	95.5	117.6
40°	11.0	14.7	18.6	20.3	26.7	35.2	47.6	67.2	90.7	112.1	148.1
37.5°	11.0	14.9	19.6	22.4	29.3	38.6	53.9	78.6	106.4	133.7	181.3
35°	11.0	15.2	20.6	24.6	31.9	43.1	60.2	90.1	122.9	164.3	221.4
32.5°	11.0	15.5	21.7	26.8	34.5	48.2	67.4	101.7	139.9	195.7	267.1
30°	11.0	15.7	22.8	29.0	37.2	53.1	76.8	113.6	157.5	227.7	310.8
27.5°	11.0	16.0	23.9	31.3	40.7	58.0	85.9	126.5	176.8	260.1	352.2
25°	11.0	16.2	25.0	33.5	44.4	62.7	94.8	138.8	199.0	293.9	391.4
22.5°	11.0	16.5	26.2	35.7	47.9	67.7	103.3	150.5	219.8	320.1	431.7
20°	11.0	16.7	27.3	37.9	51.4	73.2	111.5	161.6	239.1	344.7	464.2
17.5°	11.0	17.0	28.4	40.1	54.7	78.7	119.9	172.0	256.9	367.4	494.6
15°	11.0	17.2	29.6	42.3	58.0	83.9	128.3	182.4	273.1	388.2	523.2
12.5°	11.0	17.4	30.7	44.4	61.1	89.0	136.2	192.9	289.3	407.1	549.8
10°	11.0	17.7	31.7	46.5	64.2	93.9	143.5	202.8	305.4	431.4	579.0
7.5°	11.0	17.9	32.8	48.5	67.1	98.4	150.3	211.9	320.0	455.5	616.4
5°	11.0	18.0	33.8	50.4	69.8	102.8	156.5	220.3	332.9	477.8	651.7
2.5°	11.0	18.2	34.7	52.3	72.4	106.8	162.1	227.8	344.2	497.9	684.2
0°	11.0	18.4	35.6	54.0	74.9	110.5	167.0	234.5	353.6	515.6	713.3
-2.5°	11.0	19.1	37.0	56.3	78.4	114.9	172.7	242.5	366.0	530.2	727.9
-5°	11.0	19.7	38.3	58.5	81.7	119.0	177.8	249.6	376.3	541.7	738.5
-7.5°	11.0	20.3	39.5	60.5	84.8	122.8	182.1	255.5	384.4	550.2	745.2
-10°	11.0	20.9	40.6	62.4	87.7	126.1	185.7	260.3	390.0	555.5	748.1
-12.5°	11.0	21.5	41.7	64.2	90.4	129.0	188.6	264.0	392.9	557.5	751.4
-15°	11.0	22.1	42.7	65.9	92.8	131.6	190.6	266.3	392.4	555.0	751.3
-17.5°	11.0	22.6	43.6	67.3	95.0	133.7	191.8	267.9	388.6	548.9	745.0
-20°	11.0	23.1	44.4	68.7	96.9	135.5	192.8	268.6	382.4	539.0	732.1



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 CATALOG NUMBER: EPH-LS-08-0680R-40-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	11.0	23.6	45.1	69.8	98.6	136.8	193.7	268.2	373.9	525.2	713.0
-25°	11.0	24.0	45.8	70.8	99.9	138.4	193.8	266.7	363.1	507.6	693.1
-27.5°	11.0	24.4	46.3	71.6	101.0	139.8	192.9	263.9	349.9	492.4	676.1
-30°	11.0	24.7	46.8	72.3	101.8	140.8	191.2	260.1	342.1	478.4	653.8
-32.5°	11.0	25.0	47.2	72.7	103.2	141.2	188.6	256.7	337.5	460.6	625.8
-35°	11.0	25.3	47.4	73.0	104.3	141.2	187.6	252.8	331.1	439.2	592.1
-37.5°	11.0	25.5	47.6	73.1	105.0	141.2	187.1	247.7	322.8	414.1	560.0
-40°	11.0	25.7	47.7	73.0	105.5	141.8	185.9	241.1	312.5	398.0	528.6
-42.5°	11.0	25.9	47.7	72.9	105.9	142.1	183.9	233.3	302.6	384.6	493.4
-45°	11.0	25.9	47.6	73.0	106.1	141.9	181.2	226.6	292.0	368.8	457.7
-47.5°	11.0	26.0	47.4	73.0	105.9	141.4	177.8	222.6	279.7	350.6	436.9
-50°	11.0	26.0	47.1	73.0	105.5	140.5	176.0	217.9	265.6	334.3	413.1
-52.5°	11.0	26.0	46.7	72.9	104.8	139.2	174.1	212.5	256.4	316.0	385.7
-55°	11.0	25.9	46.2	72.6	103.7	137.5	171.8	206.8	248.7	295.8	359.5
-57.5°	11.0	25.8	45.7	72.1	102.4	135.4	169.0	203.5	240.1	283.0	331.5
-60°	11.0	25.6	45.0	71.4	100.8	133.0	165.9	199.3	231.3	271.5	306.4
-62.5°	11.0	25.4	44.3	70.5	99.4	130.1	162.2	194.3	225.2	258.4	290.6
-65°	11.0	25.2	43.5	69.4	97.8	126.9	158.0	188.8	218.3	247.7	274.0
-67.5°	11.0	24.9	42.6	68.2	95.9	123.7	153.4	182.6	210.9	237.7	261.0
-70°	11.0	24.6	41.6	66.7	93.8	120.4	148.4	176.0	203.0	227.2	249.1
-72.5°	11.0	24.2	40.5	65.2	91.4	116.7	143.3	168.9	194.6	216.6	236.8
-75°	11.0	23.8	39.4	63.5	88.8	112.8	137.8	161.7	185.8	205.6	224.2
-77.5°	11.0	23.4	38.1	61.6	86.1	108.5	132.0	154.1	176.5	194.3	211.1
-80°	11.0	22.9	36.7	59.6	83.2	104.5	125.8	146.2	166.9	182.8	198.1
-82.5°	11.0	22.4	35.3	57.5	80.2	100.6	120.9	138.7	156.9	171.0	184.8
-85°	11.0	21.9	33.8	55.2	77.0	96.5	116.0	132.6	149.3	161.0	172.6
-87.5°	11.0	21.4	32.3	52.9	73.6	92.2	110.9	126.3	141.7	152.1	162.5
-90°	11.0	9.8	8.6	8.6	8.6	8.6	8.6	8.0	7.4	7.4	7.4



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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°	159.0	165.7	171.9	178.0	185.4	192.8	200.2	207.5	215.5	223.4	231.4
87.5°	7.3	6.8	6.8	6.8	6.3	5.7	5.3	4.9	4.9	4.9	4.8
85°	7.9	7.4	7.4	7.4	6.9	6.5	6.0	5.4	5.5	5.5	5.3
82.5°	8.5	8.0	7.8	7.4	7.3	7.3	6.8	6.3	6.2	6.1	5.8
80°	9.1	8.7	8.2	7.8	7.7	7.5	7.2	7.2	6.8	6.3	6.2
77.5°	9.3	8.7	8.5	8.4	8.2	7.6	7.4	7.4	7.2	7.2	6.9
75°	9.4	8.8	8.8	8.7	8.2	7.6	7.4	7.7	7.7	7.5	7.3
72.5°	9.9	9.6	9.2	8.9	8.6	8.3	8.2	8.5	9.2	9.8	10.4
70°	11.0	10.5	10.1	9.9	9.4	9.4	10.4	12.5	14.5	15.3	17.3
67.5°	12.1	11.8	11.5	11.1	11.2	12.2	13.6	18.1	22.1	24.8	27.7
65°	13.4	13.1	13.2	13.4	13.5	17.3	21.3	25.8	32.7	36.6	36.7
62.5°	14.9	16.9	16.1	17.2	20.7	24.6	30.8	38.9	47.6	51.1	48.9
60°	21.2	22.2	22.7	25.4	28.8	33.1	41.7	51.4	61.5	67.7	58.6
57.5°	29.2	30.5	32.8	34.4	38.3	40.8	50.9	62.7	69.3	73.3	63.0
55°	39.2	41.2	44.6	45.3	48.5	49.6	58.1	66.2	71.8	73.0	61.9
52.5°	52.0	54.2	59.1	59.9	60.0	61.1	62.2	71.2	75.7	74.4	64.2
50°	65.8	73.3	76.0	78.8	75.1	76.6	72.5	83.0	91.8	89.5	92.5
47.5°	86.0	95.6	99.4	104.4	101.8	110.2	107.1	127.0	133.8	173.6	182.4
45°	110.4	127.2	132.3	144.1	155.9	165.7	197.7	200.3	284.0	318.9	384.8
42.5°	139.7	166.0	187.4	191.8	248.8	279.1	323.6	396.7	470.1	537.4	582.2
40°	183.1	210.5	256.3	309.8	370.3	435.7	494.9	579.8	651.0	703.8	735.5
37.5°	232.7	284.6	347.1	443.6	525.4	592.0	659.3	732.7	799.7	846.2	906.7
35°	287.0	362.7	478.6	579.1	666.9	729.5	795.3	873.1	936.4	1011.3	1086.0
32.5°	352.9	442.4	587.8	696.3	767.6	841.8	917.7	999.5	1090.1	1182.4	1278.1
30°	418.1	532.1	674.3	787.0	856.0	942.5	1034.7	1130.6	1249.4	1365.8	1495.0
27.5°	469.4	609.2	744.3	860.9	941.2	1043.7	1156.2	1281.4	1422.5	1564.9	1736.6
25°	515.2	666.4	815.0	938.5	1040.7	1154.2	1286.4	1436.6	1604.6	1804.8	2344.9
22.5°	559.9	722.2	893.0	1021.7	1136.5	1264.7	1424.2	1599.6	1797.2	2063.2	3018.6
20°	605.8	785.4	967.7	1090.9	1224.0	1367.7	1554.6	1758.0	2003.1	2631.5	4040.7
17.5°	652.9	850.7	1031.3	1151.6	1291.9	1467.1	1684.3	1913.8	2212.6	3163.6	5320.7
15°	698.9	912.1	1082.3	1205.3	1360.0	1563.9	1806.5	2087.7	2583.4	3906.2	6603.2
12.5°	742.9	967.3	1120.1	1251.4	1427.2	1655.1	1919.8	2235.5	3019.1	4908.4	8002.2
10°	784.3	1016.2	1153.0	1295.5	1492.9	1740.9	2021.4	2365.5	3399.5	5709.3	9109.7
7.5°	829.0	1058.1	1182.8	1337.4	1553.4	1819.2	2105.1	2465.6	3683.0	6323.3	9932.3
5°	869.7	1092.2	1217.3	1386.4	1613.6	1890.0	2176.7	2549.5	3876.4	6712.5	10503.3
2.5°	905.2	1119.4	1249.2	1433.0	1670.0	1952.0	2241.5	2633.4	4049.0	7041.5	11225.7
0°	935.5	1140.5	1278.0	1474.5	1718.8	2003.6	2294.6	2701.0	4164.4	7263.1	12063.5
-2.5°	954.0	1172.1	1326.0	1518.0	1759.1	2040.2	2342.5	2773.2	4281.3	7742.1	12382.6
-5°	967.3	1197.7	1368.9	1556.2	1791.7	2067.0	2377.6	2824.3	4331.5	7873.8	12289.6
-7.5°	975.0	1216.3	1405.8	1589.6	1820.8	2098.0	2433.0	2892.7	4354.4	7549.1	11763.0
-10°	979.1	1231.9	1429.9	1617.1	1847.8	2126.6	2476.2	2936.9	4260.8	7111.0	11157.1
-12.5°	989.6	1245.2	1449.1	1637.5	1865.8	2147.1	2509.8	2970.2	4047.8	6509.0	10324.3
-15°	992.4	1252.0	1465.1	1651.6	1884.6	2177.2	2535.3	2975.9	3740.1	5731.0	9260.9
-17.5°	986.9	1252.4	1476.3	1662.5	1894.0	2188.7	2543.4	2959.5	3510.2	5165.7	8191.1
-20°	972.5	1237.7	1479.7	1663.6	1890.4	2193.4	2547.4	2952.5	3454.1	4587.8	6893.8



REPORT NUMBER: P735985 (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°	949.2	1214.6	1467.8	1661.8	1902.7	2195.4	2535.6	2908.8	3332.5	3890.7	5602.3
-25°	924.1	1181.7	1436.7	1667.7	1905.1	2185.2	2486.0	2828.6	3220.0	3656.5	4680.7
-27.5°	897.1	1143.4	1404.7	1660.3	1893.4	2146.9	2426.3	2747.4	3069.7	3422.2	3858.5
-30°	864.4	1101.7	1362.0	1633.4	1865.9	2102.8	2360.4	2620.0	2908.8	3226.2	3595.8
-32.5°	825.3	1052.7	1309.0	1577.1	1829.6	2051.5	2266.9	2500.1	2757.8	3037.7	3343.3
-35°	782.7	1003.0	1246.7	1508.6	1785.2	1989.0	2176.2	2377.8	2606.1	2861.8	3145.7
-37.5°	739.5	945.7	1173.7	1429.1	1698.1	1911.4	2080.1	2268.2	2469.3	2688.2	2952.2
-40°	690.5	879.7	1097.7	1339.0	1577.5	1808.1	1993.4	2164.0	2340.7	2541.0	2756.6
-42.5°	637.7	815.4	1014.5	1233.1	1449.7	1669.6	1901.7	2069.3	2227.4	2397.5	2586.4
-45°	593.7	744.4	924.4	1118.9	1314.2	1527.1	1751.1	1975.1	2119.4	2266.7	2427.7
-47.5°	542.6	672.5	837.1	999.1	1179.2	1380.0	1592.2	1800.0	2004.9	2148.1	2283.7
-50°	493.9	611.5	737.2	886.3	1046.8	1232.2	1426.6	1616.5	1808.6	2002.6	2157.2
-52.5°	460.3	546.2	655.3	773.1	921.5	1085.3	1255.7	1425.0	1605.4	1790.5	1968.7
-55°	424.1	497.7	575.4	675.5	797.7	943.6	1085.4	1237.1	1392.1	1562.8	1736.3
-57.5°	389.7	450.6	511.6	587.7	690.5	802.0	926.3	1050.9	1191.3	1334.3	1482.9
-60°	355.6	405.6	457.4	518.1	588.9	682.9	772.9	881.4	998.0	1115.6	1247.7
-62.5°	323.0	363.7	406.9	458.1	517.3	572.8	647.1	731.3	815.4	919.5	1026.6
-65°	303.8	326.4	360.3	404.8	450.9	500.0	548.2	599.7	673.0	750.7	826.7
-67.5°	283.4	304.2	325.4	352.9	393.2	431.5	470.3	515.6	562.3	612.7	668.0
-70°	268.1	282.6	301.4	323.0	344.1	367.3	401.9	437.9	473.8	512.9	556.4
-72.5°	253.6	267.2	281.3	296.4	314.9	332.6	350.8	370.3	398.6	433.0	465.2
-75°	239.0	251.6	264.4	277.7	291.6	305.0	319.3	336.8	356.3	377.4	397.1
-77.5°	224.2	235.8	247.5	259.0	271.6	284.6	296.9	309.4	324.7	341.0	356.5
-80°	209.5	219.9	230.8	241.5	252.4	263.7	274.6	285.2	298.3	312.4	326.1
-82.5°	195.2	205.0	214.4	223.7	233.3	242.6	252.4	262.3	274.4	286.7	298.5
-85°	181.4	190.0	197.9	205.7	214.6	223.3	231.6	240.0	251.0	262.1	272.2
-87.5°	170.2	177.9	184.7	191.3	199.1	206.9	214.1	221.3	230.7	240.2	248.8
-90°	6.8	6.1	6.1	6.1	5.5	4.9	4.9	4.9	4.9	4.9	4.3



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	239.4	245.0	250.5	254.2	257.8	263.4	268.9	276.9	284.8	291.6	298.3
87.5°	4.7	4.2	3.7	3.6	3.6	3.6	3.6	3.1	2.5	2.5	2.5
85°	4.9	4.7	4.6	4.6	4.7	4.2	3.7	3.6	3.6	3.6	3.7
82.5°	5.5	5.2	4.9	4.9	4.9	4.8	4.7	4.2	3.7	3.7	3.7
80°	6.1	5.8	5.5	5.3	5.0	4.9	4.9	4.4	3.8	3.7	3.7
77.5°	6.4	6.3	6.2	5.6	5.0	4.9	4.9	4.4	3.8	3.7	3.7
75°	7.3	7.2	7.0	6.8	6.7	6.9	7.2	7.1	6.7	6.4	6.0
72.5°	11.1	11.1	10.8	11.5	12.1	12.7	13.0	13.4	13.9	14.8	15.9
70°	19.6	21.1	21.2	21.1	21.0	20.4	19.8	19.5	19.7	20.0	20.4
67.5°	29.5	30.7	31.2	31.5	28.8	27.0	26.2	26.3	27.4	29.6	32.8
65°	37.6	35.3	33.3	31.2	31.3	31.2	29.8	29.1	30.1	31.5	32.9
62.5°	44.8	35.6	29.7	26.8	27.3	28.2	25.5	23.4	22.8	22.3	22.5
60°	48.1	33.5	23.6	20.0	17.9	16.9	15.0	12.8	12.2	12.0	12.3
57.5°	48.5	31.9	18.8	14.8	11.3	8.8	7.4	6.4	6.4	6.2	6.1
55°	47.0	32.2	18.2	16.7	15.3	14.0	12.2	11.8	11.2	11.1	11.8
52.5°	48.7	45.2	37.0	35.9	43.7	44.0	37.9	46.6	52.5	57.1	59.2
50°	96.3	92.6	117.0	116.9	141.6	162.7	156.6	168.9	190.3	208.8	220.2
47.5°	225.1	242.8	279.4	312.2	349.3	396.1	416.8	431.6	450.2	475.2	492.0
45°	419.3	463.2	510.6	563.8	625.8	680.7	712.6	743.4	763.7	785.9	812.2
42.5°	622.6	674.9	745.3	808.9	876.0	940.0	990.5	1035.0	1121.7	1245.5	1343.9
40°	796.7	856.1	937.9	1022.7	1101.7	1182.7	1405.7	1595.6	1832.3	2185.9	2499.1
37.5°	969.5	1038.3	1129.5	1233.3	1471.8	1713.2	2200.1	2726.1	3181.8	3692.8	4208.9
35°	1157.8	1248.1	1370.2	1719.3	2160.8	2804.4	3502.6	4283.8	4946.9	5660.5	6705.9
32.5°	1380.1	1538.0	1932.6	2567.3	3358.9	4273.1	5139.2	6121.2	6949.4	8260.4	9857.0
30°	1666.8	2161.9	2919.4	3795.8	4863.9	6021.1	7107.1	8697.6	10555.6	12200.5	13558.9
27.5°	2358.2	3314.5	4372.2	5482.8	6820.3	8222.5	10499.5	12558.0	14557.3	16333.3	18396.8
25°	3390.5	4924.8	6732.4	8221.3	10038.8	12573.0	15147.7	17414.8	20453.3	23125.8	26123.6
22.5°	4850.8	7035.4	9363.7	11537.5	14328.7	17502.7	20966.7	25144.0	29365.0	34053.6	38224.8
20°	6276.1	9040.0	11988.5	15118.0	18692.6	22661.1	28323.6	35102.8	41607.1	48994.0	55222.7
17.5°	8174.1	11515.3	15002.4	18980.4	23576.3	29681.7	38039.5	47309.1	57367.2	68397.6	78597.9
15°	10104.1	13703.7	17755.7	22846.8	29347.6	37645.4	48307.9	60926.8	75636.0	91851.2	111564.8
12.5°	11685.9	15622.0	20360.1	26776.1	35278.4	46375.3	59293.9	74484.0	94649.8	119106.9	142010.2
10°	13037.4	17757.1	23744.2	31337.6	41338.3	53865.7	68541.1	87347.7	114511.9	142844.5	167978.8
7.5°	14429.5	20012.9	26353.6	34586.6	45957.5	60177.3	78248.5	102807.2	132695.1	161754.9	184804.3
5°	15742.5	21551.2	28000.1	36796.1	49092.9	64364.9	84868.8	114781.3	147305.8	175768.0	197422.8
2.5°	16771.0	22324.9	28867.2	38441.7	50787.7	66640.8	89018.8	122185.8	156304.1	184354.9	206560.1
0°	17304.6	22744.5	29348.4	39470.8	52193.6	68729.6	91398.0	125453.4	159964.3	187280.8	209913.7
-2.5°	17186.5	22542.0	29050.5	38676.6	51872.3	69107.5	93376.3	127156.3	160594.8	188278.8	209609.0
-5°	16938.1	22222.9	28641.6	37700.7	50721.9	68157.4	91228.2	122284.6	154578.6	182976.2	203712.6
-7.5°	16475.3	21688.7	27826.0	36273.1	48815.1	65326.0	86145.2	113131.9	144112.6	172564.9	192639.5
-10°	15794.5	20863.5	26655.5	34338.1	45601.8	60766.7	78466.6	99541.4	128522.6	155124.0	177429.3
-12.5°	14826.7	19695.9	25031.7	31633.5	41720.7	55085.1	70344.1	87854.7	108567.9	134223.0	155130.8
-15°	13595.2	18174.6	23132.7	29361.7	37796.2	48746.5	61611.8	75195.8	91071.9	108781.1	129160.6
-17.5°	12084.0	16385.6	21002.8	26372.8	33194.1	42381.4	52558.4	63157.8	74617.4	87649.7	99622.8
-20°	10281.9	14216.5	18567.6	23562.5	29407.4	36043.5	43441.5	52010.4	60892.9	70194.4	78424.0



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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°	8451.9	12041.3	16187.5	20555.0	25635.2	30700.5	35669.4	42040.7	48900.3	55634.0	61759.6
-25°	6613.1	9781.9	13636.9	17733.3	21810.8	25948.4	29982.8	33939.1	38875.2	43209.5	47705.5
-27.5°	5252.7	7623.1	10860.2	14435.0	17988.1	21440.5	24928.7	28233.4	31346.3	33963.9	36995.0
-30°	4131.0	5730.9	8231.6	11044.7	14153.6	17195.6	20201.4	22993.0	25444.3	27599.6	29704.4
-32.5°	3734.9	4388.3	5874.3	8012.0	10464.7	13133.4	15645.9	18043.7	20064.6	22067.5	23953.5
-35°	3455.0	3814.7	4300.5	5635.9	7233.1	9356.9	11326.4	13316.4	15013.7	17014.0	18560.7
-37.5°	3225.5	3502.6	3809.7	4124.7	5096.0	6159.4	7577.3	9069.0	10380.2	12058.2	13423.7
-40°	3003.3	3248.7	3488.7	3728.2	3986.5	4223.8	5067.8	5837.0	6726.4	7874.3	8856.5
-42.5°	2788.6	3004.6	3212.6	3407.1	3587.6	3743.4	3913.2	4076.0	4556.4	5141.4	5590.7
-45°	2595.8	2779.5	2953.5	3118.1	3255.5	3380.3	3511.1	3647.4	3826.0	3988.2	4122.2
-47.5°	2431.9	2577.1	2719.7	2853.8	2959.4	3065.9	3170.0	3287.6	3426.7	3562.9	3676.8
-50°	2283.7	2409.3	2517.5	2612.5	2700.3	2790.4	2873.4	2977.8	3089.7	3202.4	3296.6
-52.5°	2141.6	2253.4	2343.9	2416.2	2483.0	2556.5	2627.9	2711.2	2802.0	2896.8	2971.7
-55°	1903.0	2045.0	2176.4	2244.3	2296.7	2357.3	2417.8	2485.2	2561.9	2641.6	2701.0
-57.5°	1639.3	1779.5	1903.2	1991.3	2078.3	2167.2	2233.7	2286.5	2355.9	2423.9	2475.2
-60°	1374.5	1492.0	1601.3	1690.3	1781.1	1870.1	1944.9	2013.7	2099.5	2177.5	2241.0
-62.5°	1127.9	1230.7	1315.1	1387.2	1464.5	1541.9	1613.1	1681.0	1759.0	1829.0	1888.4
-65°	903.8	990.0	1052.5	1109.1	1170.6	1234.7	1291.2	1347.4	1410.0	1466.1	1514.9
-67.5°	730.8	788.0	826.9	863.0	911.8	961.6	1005.9	1050.7	1098.5	1141.0	1177.9
-70°	598.3	634.0	658.0	685.7	720.4	752.2	781.3	814.1	849.3	881.8	911.2
-72.5°	496.0	520.5	538.4	560.5	582.6	602.8	621.2	644.7	670.4	695.5	719.4
-75°	415.5	431.4	448.5	464.5	479.6	494.3	507.8	526.7	546.4	565.3	583.4
-77.5°	372.8	384.6	394.2	403.1	411.4	420.8	430.2	446.2	463.4	478.0	491.7
-80°	339.7	349.0	356.9	363.6	369.9	377.6	385.4	398.5	412.0	424.3	436.2
-82.5°	310.1	318.0	325.3	331.5	337.4	344.1	350.7	362.2	373.8	384.2	394.4
-85°	282.3	289.2	295.7	301.3	306.7	312.9	318.9	328.9	338.8	348.1	357.3
-87.5°	257.4	263.5	269.6	273.7	277.8	283.7	289.6	298.5	307.4	315.5	323.7
-90°	3.7	3.7	3.7	3.1	2.5	2.5	2.5	2.5	2.5	1.9	1.2



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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°	302.0	305.7	306.3	306.9	306.3	305.7	302.0	298.3	291.6	284.8	276.9
87.5°	1.8	1.2	1.8	2.5	1.8	1.2	1.8	2.5	2.5	2.5	3.1
85°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.2
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.8	4.4
77.5°	3.2	2.6	3.1	3.7	3.1	2.6	3.2	3.7	3.7	3.8	4.4
75°	5.4	4.9	4.3	3.7	4.3	4.9	5.4	6.0	6.4	6.7	7.1
72.5°	16.5	16.9	17.7	18.4	17.7	16.9	16.5	15.9	14.8	13.9	13.4
70°	19.7	18.5	18.4	18.4	18.4	18.5	19.7	20.4	20.0	19.7	19.5
67.5°	35.2	37.2	37.9	38.1	37.9	37.2	35.2	32.8	29.6	27.4	26.3
65°	34.2	35.4	35.6	35.6	35.6	35.4	34.2	32.9	31.5	30.1	29.1
62.5°	22.9	23.6	24.0	24.6	24.0	23.6	22.9	22.5	22.3	22.8	23.4
60°	12.8	13.6	14.1	14.7	14.1	13.6	12.8	12.3	12.0	12.2	12.8
57.5°	6.0	6.3	6.7	7.4	6.7	6.3	6.0	6.1	6.2	6.4	6.4
55°	12.4	13.0	13.4	13.5	13.4	13.0	12.4	11.8	11.1	11.2	11.8
52.5°	58.2	55.4	53.2	51.6	53.2	55.4	58.2	59.2	57.1	52.5	46.6
50°	225.0	219.5	213.3	207.5	213.3	219.5	225.0	220.2	208.8	190.3	168.9
47.5°	501.9	497.5	488.3	476.4	488.3	497.5	501.9	492.0	475.2	450.2	431.6
45°	848.3	872.9	883.9	877.8	883.9	872.9	848.3	812.2	785.9	763.7	743.4
42.5°	1377.4	1399.1	1401.0	1368.9	1401.0	1399.1	1377.4	1343.9	1245.5	1121.7	1035.0
40°	2725.7	2914.6	2979.3	2784.4	2979.3	2914.6	2725.7	2499.1	2185.9	1832.3	1595.6
37.5°	4830.9	5573.1	6192.1	6215.9	6192.1	5573.1	4830.9	4208.9	3692.8	3181.8	2726.1
35°	7829.3	8592.8	8961.9	8946.3	8961.9	8592.8	7829.3	6705.9	5660.5	4946.9	4283.8
32.5°	11004.3	11582.7	11952.4	11863.4	11952.4	11582.7	11004.3	9857.0	8260.4	6949.4	6121.2
30°	14529.0	15065.7	15496.6	15490.0	15496.6	15065.7	14529.0	13558.9	12200.5	10555.6	8697.6
27.5°	20076.3	21182.3	22061.2	21912.1	22061.2	21182.3	20076.3	18396.8	16333.3	14557.3	12558.0
25°	28652.4	30675.3	32105.4	31811.2	32105.4	30675.3	28652.4	26123.6	23125.8	20453.3	17414.8
22.5°	41321.6	43916.6	45001.5	44141.0	45001.5	43916.6	41321.6	38224.8	34053.6	29365.0	25144.0
20°	61156.8	65967.9	68958.9	67175.3	68958.9	65967.9	61156.8	55222.7	48994.0	41607.1	35102.8
17.5°	91800.1	102237.4	110484.1	110256.8	110484.1	102237.4	91800.1	78597.9	68397.6	57367.2	47309.1
15°	128728.2	140607.9	149755.2	150813.0	149755.2	140607.9	128728.2	111564.8	91851.2	75636.0	60926.8
12.5°	161793.5	173875.2	182826.8	185402.5	182826.8	173875.2	161793.5	142010.2	119106.9	94649.8	74484.0
10°	185359.0	197415.7	206080.0	209135.3	206080.0	197415.7	185359.0	167978.8	142844.5	114511.9	87347.7
7.5°	202646.4	215726.9	222221.6	225541.2	222221.6	215726.9	202646.4	184804.3	161754.9	132695.1	102807.2
5°	215085.8	227242.6	233525.6	237548.2	233525.6	227242.6	215085.8	197422.8	175768.0	147305.8	114781.3
2.5°	222927.4	234404.4	241949.6	245557.8	241949.6	234404.4	222927.4	206560.1	184354.9	156304.1	122185.8
0°	225458.3	236476.4	244933.5	248167.8	244933.5	236476.4	225458.3	209913.7	187280.8	159964.3	125453.4
-2.5°	224281.1	235074.3	241819.4	243126.8	241819.4	235074.3	224281.1	209609.0	188278.8	160594.8	127156.3
-5°	218154.7	228102.4	234330.8	235354.2	234330.8	228102.4	218154.7	203712.6	182976.2	154578.6	122284.6
-7.5°	207593.0	217516.2	222664.4	224180.2	222664.4	217516.2	207593.0	192639.5	172564.9	144112.6	113131.9
-10°	192279.6	201866.5	207368.7	208673.7	207368.7	201866.5	192279.6	177429.3	155124.0	128522.6	99541.4
-12.5°	171384.0	181611.3	187769.4	189126.1	187769.4	181611.3	171384.0	155130.8	134223.0	108567.9	87854.7
-15°	144288.6	154808.7	162670.0	164571.9	162670.0	154808.7	144288.6	129160.6	108781.1	91071.9	75195.8
-17.5°	113055.6	123583.1	130647.3	131995.9	130647.3	123583.1	113055.6	99622.8	87649.7	74617.4	63157.8
-20°	86155.9	92926.5	96913.4	97607.8	96913.4	92926.5	86155.9	78424.0	70194.4	60892.9	52010.4



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	66765.6	71316.2	73743.6	74086.1	73743.6	71316.2	66765.6	61759.6	55634.0	48900.3	42040.7
-25°	51737.0	55043.3	56851.3	57152.3	56851.3	55043.3	51737.0	47705.5	43209.5	38875.2	33939.1
-27.5°	39725.1	41779.0	43461.3	43111.0	43461.3	41779.0	39725.1	36995.0	33963.9	31346.3	28233.4
-30°	31433.9	32751.2	33744.9	33484.5	33744.9	32751.2	31433.9	29704.4	27599.6	25444.3	22993.0
-32.5°	25441.5	26473.6	27172.1	27358.3	27172.1	26473.6	25441.5	23953.5	22067.5	20064.6	18043.7
-35°	19774.4	20617.7	21101.8	21289.7	21101.8	20617.7	19774.4	18560.7	17014.0	15013.7	13316.4
-37.5°	14437.3	15177.0	15638.9	15799.4	15638.9	15177.0	14437.3	13423.7	12058.2	10380.2	9069.0
-40°	9608.4	10178.4	10556.7	10703.2	10556.7	10178.4	9608.4	8856.5	7874.3	6726.4	5837.0
-42.5°	5940.8	6207.6	6376.5	6429.5	6376.5	6207.6	5940.8	5590.7	5141.4	4556.4	4076.0
-45°	4225.7	4299.5	4341.7	4349.8	4341.7	4299.5	4225.7	4122.2	3988.2	3826.0	3647.4
-47.5°	3765.9	3824.0	3853.7	3855.0	3853.7	3824.0	3765.9	3676.8	3562.9	3426.7	3287.6
-50°	3374.4	3428.2	3455.4	3457.2	3455.4	3428.2	3374.4	3296.6	3202.4	3089.7	2977.8
-52.5°	3033.1	3076.0	3095.9	3096.3	3095.9	3076.0	3033.1	2971.7	2896.8	2802.0	2711.2
-55°	2749.8	2783.1	2795.5	2793.0	2795.5	2783.1	2749.8	2701.0	2641.6	2561.9	2485.2
-57.5°	2517.9	2550.6	2560.8	2557.3	2560.8	2550.6	2517.9	2475.2	2423.9	2355.9	2286.5
-60°	2290.5	2325.4	2338.6	2337.6	2338.6	2325.4	2290.5	2241.0	2177.5	2099.5	2013.7
-62.5°	1930.9	1957.8	1972.2	1976.6	1972.2	1957.8	1930.9	1888.4	1829.0	1759.0	1681.0
-65°	1548.4	1569.8	1581.4	1585.0	1581.4	1569.8	1548.4	1514.9	1466.1	1410.0	1347.4
-67.5°	1201.8	1217.2	1224.6	1226.5	1224.6	1217.2	1201.8	1177.9	1141.0	1098.5	1050.7
-70°	929.5	942.1	948.0	950.2	948.0	942.1	929.5	911.2	881.8	849.3	814.1
-72.5°	733.1	743.2	747.3	748.9	747.3	743.2	733.1	719.4	695.5	670.4	644.7
-75°	591.9	597.9	600.4	601.6	600.4	597.9	591.9	583.4	565.3	546.4	526.7
-77.5°	499.2	505.6	507.9	509.5	507.9	505.6	499.2	491.7	478.0	463.4	446.2
-80°	441.6	446.2	447.9	449.3	447.9	446.2	441.6	436.2	424.3	412.0	398.5
-82.5°	400.9	407.0	407.5	407.6	407.5	407.0	400.9	394.4	384.2	373.8	362.2
-85°	362.2	366.8	367.6	368.3	367.6	366.8	362.2	357.3	348.1	338.8	328.9
-87.5°	328.2	332.6	332.7	332.7	332.7	332.6	328.2	323.7	315.5	307.4	298.5
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9	2.5	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°	268.9	263.4	257.8	254.2	250.5	245.0	239.4	231.4	223.4	215.5	207.5
87.5°	3.6	3.6	3.6	3.6	3.7	4.2	4.7	4.8	4.9	4.9	4.9
85°	3.7	4.2	4.7	4.6	4.6	4.7	4.9	5.3	5.5	5.5	5.4
82.5°	4.7	4.8	4.9	4.9	4.9	5.2	5.5	5.8	6.1	6.2	6.3
80°	4.9	4.9	5.0	5.3	5.5	5.8	6.1	6.2	6.3	6.8	7.2
77.5°	4.9	4.9	5.0	5.6	6.2	6.3	6.4	6.9	7.2	7.2	7.4
75°	7.2	6.9	6.7	6.8	7.0	7.2	7.3	7.3	7.5	7.7	7.7
72.5°	13.0	12.7	12.1	11.5	10.8	11.1	11.1	10.4	9.8	9.2	8.5
70°	19.8	20.4	21.0	21.1	21.2	21.1	19.6	17.3	15.3	14.5	12.5
67.5°	26.2	27.0	28.8	31.5	31.2	30.7	29.5	27.7	24.8	22.1	18.1
65°	29.8	31.2	31.3	31.2	33.3	35.3	37.6	36.7	36.6	32.7	25.8
62.5°	25.5	28.2	27.3	26.8	29.7	35.6	44.8	48.9	51.1	47.6	38.9
60°	15.0	16.9	17.9	20.0	23.6	33.5	48.1	58.6	67.7	61.5	51.4
57.5°	7.4	8.8	11.3	14.8	18.8	31.9	48.5	63.0	73.3	69.3	62.7
55°	12.2	14.0	15.3	16.7	18.2	32.2	47.0	61.9	73.0	71.8	66.2
52.5°	37.9	44.0	43.7	35.9	37.0	45.2	48.7	64.2	74.4	75.7	71.2
50°	156.6	162.7	141.6	116.9	117.0	92.6	96.3	92.5	89.5	91.8	83.0
47.5°	416.8	396.1	349.3	312.2	279.4	242.8	225.1	182.4	173.6	133.8	127.0
45°	712.6	680.7	625.8	563.8	510.6	463.2	419.3	384.8	318.9	284.0	200.3
42.5°	990.5	940.0	876.0	808.9	745.3	674.9	622.6	582.2	537.4	470.1	396.7
40°	1405.7	1182.7	1101.7	1022.7	937.9	856.1	796.7	735.5	703.8	651.0	579.8
37.5°	2200.1	1713.2	1471.8	1233.3	1129.5	1038.3	969.5	906.7	846.2	799.7	732.7
35°	3502.6	2804.4	2160.8	1719.3	1370.2	1248.1	1157.8	1086.0	1011.3	936.4	873.1
32.5°	5139.2	4273.1	3358.9	2567.3	1932.6	1538.0	1380.1	1278.1	1182.4	1090.1	999.5
30°	7107.1	6021.1	4863.9	3795.8	2919.4	2161.9	1666.8	1495.0	1365.8	1249.4	1130.6
27.5°	10499.5	8222.5	6820.3	5482.8	4372.2	3314.5	2358.2	1736.6	1564.9	1422.5	1281.4
25°	15147.7	12573.0	10038.8	8221.3	6732.4	4924.8	3390.5	2344.9	1804.8	1604.6	1436.6
22.5°	20966.7	17502.7	14328.7	11537.5	9363.7	7035.4	4850.8	3018.6	2063.2	1797.2	1599.6
20°	28323.6	22661.1	18692.6	15118.0	11988.5	9040.0	6276.1	4040.7	2631.5	2003.1	1758.0
17.5°	38039.5	29681.7	23576.3	18980.4	15002.4	11515.3	8174.1	5320.7	3163.6	2212.6	1913.8
15°	48307.9	37645.4	29347.6	22846.8	17755.7	13703.7	10104.1	6603.2	3906.2	2583.4	2087.7
12.5°	59293.9	46375.3	35278.4	26776.1	20360.1	15622.0	11685.9	8002.2	4908.4	3019.1	2235.5
10°	68541.1	53865.7	41338.3	31337.6	23744.2	17757.1	13037.4	9109.7	5709.3	3399.5	2365.5
7.5°	78248.5	60177.3	45957.5	34586.6	26353.6	20012.9	14429.5	9932.3	6323.3	3683.0	2465.6
5°	84868.8	64364.9	49092.9	36796.1	28000.1	21551.2	15742.5	10503.3	6712.5	3876.4	2549.5
2.5°	89018.8	66640.8	50787.7	38441.7	28867.2	22324.9	16771.0	11225.7	7041.5	4049.0	2633.4
0°	91398.0	68729.6	52193.6	39470.8	29348.4	22744.5	17304.6	12063.5	7263.1	4164.4	2701.0
-2.5°	93376.3	69107.5	51872.3	38676.6	29050.5	22542.0	17186.5	12382.6	7742.1	4281.3	2773.2
-5°	91228.2	68157.4	50721.9	37700.7	28641.6	22222.9	16938.1	12289.6	7873.8	4331.5	2824.3
-7.5°	86145.2	65326.0	48815.1	36273.1	27826.0	21688.7	16475.3	11763.0	7549.1	4354.4	2892.7
-10°	78466.6	60766.7	45601.8	34338.1	26655.5	20863.5	15794.5	11157.1	7111.0	4260.8	2936.9
-12.5°	70344.1	55085.1	41720.7	31633.5	25031.7	19695.9	14826.7	10324.3	6509.0	4047.8	2970.2
-15°	61611.8	48746.5	37796.2	29361.7	23132.7	18174.6	13595.2	9260.9	5731.0	3740.1	2975.9
-17.5°	52558.4	42381.4	33194.1	26372.8	21002.8	16385.6	12084.0	8191.1	5165.7	3510.2	2959.5
-20°	43441.5	36043.5	29407.4	23562.5	18567.6	14216.5	10281.9	6893.8	4587.8	3454.1	2952.5



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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°	35669.4	30700.5	25635.2	20555.0	16187.5	12041.3	8451.9	5602.3	3890.7	3332.5	2908.8
-25°	29982.8	25948.4	21810.8	17733.3	13636.9	9781.9	6613.1	4680.7	3656.5	3220.0	2828.6
-27.5°	24928.7	21440.5	17988.1	14435.0	10860.2	7623.1	5252.7	3858.5	3422.2	3069.7	2747.4
-30°	20201.4	17195.6	14153.6	11044.7	8231.6	5730.9	4131.0	3595.8	3226.2	2908.8	2620.0
-32.5°	15645.9	13133.4	10464.7	8012.0	5874.3	4388.3	3734.9	3343.3	3037.7	2757.8	2500.1
-35°	11326.4	9356.9	7233.1	5635.9	4300.5	3814.7	3455.0	3145.7	2861.8	2606.1	2377.8
-37.5°	7577.3	6159.4	5096.0	4124.7	3809.7	3502.6	3225.5	2952.2	2688.2	2469.3	2268.2
-40°	5067.8	4223.8	3986.5	3728.2	3488.7	3248.7	3003.3	2756.6	2541.0	2340.7	2164.0
-42.5°	3913.2	3743.4	3587.6	3407.1	3212.6	3004.6	2788.6	2586.4	2397.5	2227.4	2069.3
-45°	3511.1	3380.3	3255.5	3118.1	2953.5	2779.5	2595.8	2427.7	2266.7	2119.4	1975.1
-47.5°	3170.0	3065.9	2959.4	2853.8	2719.7	2577.1	2431.9	2283.7	2148.1	2004.9	1800.0
-50°	2873.4	2790.4	2700.3	2612.5	2517.5	2409.3	2283.7	2157.2	2002.6	1808.6	1616.5
-52.5°	2627.9	2556.5	2483.0	2416.2	2343.9	2253.4	2141.6	1968.7	1790.5	1605.4	1425.0
-55°	2417.8	2357.3	2296.7	2244.3	2176.4	2045.0	1903.0	1736.3	1562.8	1392.1	1237.1
-57.5°	2233.7	2167.2	2078.3	1991.3	1903.2	1779.5	1639.3	1482.9	1334.3	1191.3	1050.9
-60°	1944.9	1870.1	1781.1	1690.3	1601.3	1492.0	1374.5	1247.7	1115.6	998.0	881.4
-62.5°	1613.1	1541.9	1464.5	1387.2	1315.1	1230.7	1127.9	1026.6	919.5	815.4	731.3
-65°	1291.2	1234.7	1170.6	1109.1	1052.5	990.0	903.8	826.7	750.7	673.0	599.7
-67.5°	1005.9	961.6	911.8	863.0	826.9	788.0	730.8	668.0	612.7	562.3	515.6
-70°	781.3	752.2	720.4	685.7	658.0	634.0	598.3	556.4	512.9	473.8	437.9
-72.5°	621.2	602.8	582.6	560.5	538.4	520.5	496.0	465.2	433.0	398.6	370.3
-75°	507.8	494.3	479.6	464.5	448.5	431.4	415.5	397.1	377.4	356.3	336.8
-77.5°	430.2	420.8	411.4	403.1	394.2	384.6	372.8	356.5	341.0	324.7	309.4
-80°	385.4	377.6	369.9	363.6	356.9	349.0	339.7	326.1	312.4	298.3	285.2
-82.5°	350.7	344.1	337.4	331.5	325.3	318.0	310.1	298.5	286.7	274.4	262.3
-85°	318.9	312.9	306.7	301.3	295.7	289.2	282.3	272.2	262.1	251.0	240.0
-87.5°	289.6	283.7	277.8	273.7	269.6	263.5	257.4	248.8	240.2	230.7	221.3
-90°	2.5	2.5	2.5	3.1	3.7	3.7	3.7	4.3	4.9	4.9	4.9



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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°	200.2	192.8	185.4	178.0	171.9	165.7	159.0	152.2	143.0	133.8	119.7
87.5°	5.3	5.7	6.3	6.8	6.8	6.8	7.3	7.9	7.9	7.8	8.4
85°	6.0	6.5	6.9	7.4	7.4	7.4	7.9	8.4	8.3	8.2	8.7
82.5°	6.8	7.3	7.3	7.4	7.8	8.0	8.5	8.9	8.9	8.7	9.1
80°	7.2	7.5	7.7	7.8	8.2	8.7	9.1	9.5	9.6	9.5	9.7
77.5°	7.4	7.6	8.2	8.4	8.5	8.7	9.3	9.9	10.3	10.4	10.5
75°	7.4	7.6	8.2	8.7	8.8	8.8	9.4	10.1	10.8	11.2	11.3
72.5°	8.2	8.3	8.6	8.9	9.2	9.6	9.9	10.3	11.2	11.8	12.0
70°	10.4	9.4	9.4	9.9	10.1	10.5	11.0	11.3	11.7	12.4	12.7
67.5°	13.6	12.2	11.2	11.1	11.5	11.8	12.1	12.4	12.7	13.0	13.3
65°	21.3	17.3	13.5	13.4	13.2	13.1	13.4	13.9	13.8	14.5	14.1
62.5°	30.8	24.6	20.7	17.2	16.1	16.9	14.9	16.6	15.3	16.2	15.7
60°	41.7	33.1	28.8	25.4	22.7	22.2	21.2	19.8	19.4	18.1	17.8
57.5°	50.9	40.8	38.3	34.4	32.8	30.5	29.2	26.8	24.1	22.6	20.2
55°	58.1	49.6	48.5	45.3	44.6	41.2	39.2	36.0	30.5	28.0	22.9
52.5°	62.2	61.1	60.0	59.9	59.1	54.2	52.0	45.9	41.1	33.8	28.3
50°	72.5	76.6	75.1	78.8	76.0	73.3	65.8	59.5	52.5	41.4	34.3
47.5°	107.1	110.2	101.8	104.4	99.4	95.6	86.0	74.8	64.7	52.7	40.5
45°	197.7	165.7	155.9	144.1	132.3	127.2	110.4	91.2	79.8	64.6	46.9
42.5°	323.6	279.1	248.8	191.8	187.4	166.0	139.7	117.6	95.5	77.0	56.0
40°	494.9	435.7	370.3	309.8	256.3	210.5	183.1	148.1	112.1	90.7	67.2
37.5°	659.3	592.0	525.4	443.6	347.1	284.6	232.7	181.3	133.7	106.4	78.6
35°	795.3	729.5	666.9	579.1	478.6	362.7	287.0	221.4	164.3	122.9	90.1
32.5°	917.7	841.8	767.6	696.3	587.8	442.4	352.9	267.1	195.7	139.9	101.7
30°	1034.7	942.5	856.0	787.0	674.3	532.1	418.1	310.8	227.7	157.5	113.6
27.5°	1156.2	1043.7	941.2	860.9	744.3	609.2	469.4	352.2	260.1	176.8	126.5
25°	1286.4	1154.2	1040.7	938.5	815.0	666.4	515.2	391.4	293.9	199.0	138.8
22.5°	1424.2	1264.7	1136.5	1021.7	893.0	722.2	559.9	431.7	320.1	219.8	150.5
20°	1554.6	1367.7	1224.0	1090.9	967.7	785.4	605.8	464.2	344.7	239.1	161.6
17.5°	1684.3	1467.1	1291.9	1151.6	1031.3	850.7	652.9	494.6	367.4	256.9	172.0
15°	1806.5	1563.9	1360.0	1205.3	1082.3	912.1	698.9	523.2	388.2	273.1	182.4
12.5°	1919.8	1655.1	1427.2	1251.4	1120.1	967.3	742.9	549.8	407.1	289.3	192.9
10°	2021.4	1740.9	1492.9	1295.5	1153.0	1016.2	784.3	579.0	431.4	305.4	202.8
7.5°	2105.1	1819.2	1553.4	1337.4	1182.8	1058.1	829.0	616.4	455.5	320.0	211.9
5°	2176.7	1890.0	1613.6	1386.4	1217.3	1092.2	869.7	651.7	477.8	332.9	220.3
2.5°	2241.5	1952.0	1670.0	1433.0	1249.2	1119.4	905.2	684.2	497.9	344.2	227.8
0°	2294.6	2003.6	1718.8	1474.5	1278.0	1140.5	935.5	713.3	515.6	353.6	234.5
-2.5°	2342.5	2040.2	1759.1	1518.0	1326.0	1172.1	954.0	727.9	530.2	366.0	242.5
-5°	2377.6	2067.0	1791.7	1556.2	1368.9	1197.7	967.3	738.5	541.7	376.3	249.6
-7.5°	2433.0	2098.0	1820.8	1589.6	1405.8	1216.3	975.0	745.2	550.2	384.4	255.5
-10°	2476.2	2126.6	1847.8	1617.1	1429.9	1231.9	979.1	748.1	555.5	390.0	260.3
-12.5°	2509.8	2147.1	1865.8	1637.5	1449.1	1245.2	989.6	751.4	557.5	392.9	264.0
-15°	2535.3	2177.2	1884.6	1651.6	1465.1	1252.0	992.4	751.3	555.0	392.4	266.3
-17.5°	2543.4	2188.7	1894.0	1662.5	1476.3	1252.4	986.9	745.0	548.9	388.6	267.9
-20°	2547.4	2193.4	1890.4	1663.6	1479.7	1237.7	972.5	732.1	539.0	382.4	268.6



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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°	2535.6	2195.4	1902.7	1661.8	1467.8	1214.6	949.2	713.0	525.2	373.9	268.2
-25°	2486.0	2185.2	1905.1	1667.7	1436.7	1181.7	924.1	693.1	507.6	363.1	266.7
-27.5°	2426.3	2146.9	1893.4	1660.3	1404.7	1143.4	897.1	676.1	492.4	349.9	263.9
-30°	2360.4	2102.8	1865.9	1633.4	1362.0	1101.7	864.4	653.8	478.4	342.1	260.1
-32.5°	2266.9	2051.5	1829.6	1577.1	1309.0	1052.7	825.3	625.8	460.6	337.5	256.7
-35°	2176.2	1989.0	1785.2	1508.6	1246.7	1003.0	782.7	592.1	439.2	331.1	252.8
-37.5°	2080.1	1911.4	1698.1	1429.1	1173.7	945.7	739.5	560.0	414.1	322.8	247.7
-40°	1993.4	1808.1	1577.5	1339.0	1097.7	879.7	690.5	528.6	398.0	312.5	241.1
-42.5°	1901.7	1669.6	1449.7	1233.1	1014.5	815.4	637.7	493.4	384.6	302.6	233.3
-45°	1751.1	1527.1	1314.2	1118.9	924.4	744.4	593.7	457.7	368.8	292.0	226.6
-47.5°	1592.2	1380.0	1179.2	999.1	837.1	672.5	542.6	436.9	350.6	279.7	222.6
-50°	1426.6	1232.2	1046.8	886.3	737.2	611.5	493.9	413.1	334.3	265.6	217.9
-52.5°	1255.7	1085.3	921.5	773.1	655.3	546.2	460.3	385.7	316.0	256.4	212.5
-55°	1085.4	943.6	797.7	675.5	575.4	497.7	424.1	359.5	295.8	248.7	206.8
-57.5°	926.3	802.0	690.5	587.7	511.6	450.6	389.7	331.5	283.0	240.1	203.5
-60°	772.9	682.9	588.9	518.1	457.4	405.6	355.6	306.4	271.5	231.3	199.3
-62.5°	647.1	572.8	517.3	458.1	406.9	363.7	323.0	290.6	258.4	225.2	194.3
-65°	548.2	500.0	450.9	404.8	360.3	326.4	303.8	274.0	247.7	218.3	188.8
-67.5°	470.3	431.5	393.2	352.9	325.4	304.2	283.4	261.0	237.7	210.9	182.6
-70°	401.9	367.3	344.1	323.0	301.4	282.6	268.1	249.1	227.2	203.0	176.0
-72.5°	350.8	332.6	314.9	296.4	281.3	267.2	253.6	236.8	216.6	194.6	168.9
-75°	319.3	305.0	291.6	277.7	264.4	251.6	239.0	224.2	205.6	185.8	161.7
-77.5°	296.9	284.6	271.6	259.0	247.5	235.8	224.2	211.1	194.3	176.5	154.1
-80°	274.6	263.7	252.4	241.5	230.8	219.9	209.5	198.1	182.8	166.9	146.2
-82.5°	252.4	242.6	233.3	223.7	214.4	205.0	195.2	184.8	171.0	156.9	138.7
-85°	231.6	223.3	214.6	205.7	197.9	190.0	181.4	172.6	161.0	149.3	132.6
-87.5°	214.1	206.9	199.1	191.3	184.7	177.9	170.2	162.5	152.1	141.7	126.3
-90°	4.9	4.9	5.5	6.1	6.1	6.1	6.8	7.4	7.4	7.4	8.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	105.6	87.8	70.0	50.3	30.7	20.8	11.0
87.5°	8.9	9.0	9.0	8.9	8.8	10.0	11.0
85°	9.2	9.4	9.4	9.2	9.0	10.2	11.0
82.5°	9.6	9.8	9.8	9.5	9.3	10.5	11.0
80°	9.9	10.2	10.3	9.8	9.5	10.7	11.0
77.5°	10.6	10.7	10.7	10.2	9.7	10.9	11.0
75°	11.3	11.2	11.1	10.5	10.0	11.1	11.0
72.5°	11.9	11.8	11.5	10.8	10.3	11.4	11.0
70°	12.6	12.3	12.0	11.1	10.6	11.6	11.0
67.5°	13.4	12.9	12.5	11.6	10.9	11.8	11.0
65°	14.4	13.7	13.0	12.1	11.2	12.1	11.0
62.5°	15.4	14.8	13.6	12.6	11.6	12.3	11.0
60°	16.5	15.9	14.1	13.1	12.0	12.6	11.0
57.5°	18.8	17.2	15.4	13.6	12.7	12.8	11.0
55°	21.4	18.4	16.8	14.2	13.4	13.1	11.0
52.5°	24.1	20.0	18.2	14.7	14.2	13.3	11.0
50°	26.9	22.8	19.7	15.3	15.0	13.6	11.0
47.5°	30.3	25.7	21.2	16.0	15.8	13.9	11.0
45°	35.9	28.7	22.9	17.2	16.7	14.1	11.0
42.5°	41.6	31.9	24.5	18.5	17.6	14.4	11.0
40°	47.6	35.2	26.7	20.3	18.6	14.7	11.0
37.5°	53.9	38.6	29.3	22.4	19.6	14.9	11.0
35°	60.2	43.1	31.9	24.6	20.6	15.2	11.0
32.5°	67.4	48.2	34.5	26.8	21.7	15.5	11.0
30°	76.8	53.1	37.2	29.0	22.8	15.7	11.0
27.5°	85.9	58.0	40.7	31.3	23.9	16.0	11.0
25°	94.8	62.7	44.4	33.5	25.0	16.2	11.0
22.5°	103.3	67.7	47.9	35.7	26.2	16.5	11.0
20°	111.5	73.2	51.4	37.9	27.3	16.7	11.0
17.5°	119.9	78.7	54.7	40.1	28.4	17.0	11.0
15°	128.3	83.9	58.0	42.3	29.6	17.2	11.0
12.5°	136.2	89.0	61.1	44.4	30.7	17.4	11.0
10°	143.5	93.9	64.2	46.5	31.7	17.7	11.0
7.5°	150.3	98.4	67.1	48.5	32.8	17.9	11.0
5°	156.5	102.8	69.8	50.4	33.8	18.0	11.0
2.5°	162.1	106.8	72.4	52.3	34.7	18.2	11.0
0°	167.0	110.5	74.9	54.0	35.6	18.4	11.0
-2.5°	172.7	114.9	78.4	56.3	37.0	19.1	11.0
-5°	177.8	119.0	81.7	58.5	38.3	19.7	11.0
-7.5°	182.1	122.8	84.8	60.5	39.5	20.3	11.0
-10°	185.7	126.1	87.7	62.4	40.6	20.9	11.0
-12.5°	188.6	129.0	90.4	64.2	41.7	21.5	11.0
-15°	190.6	131.6	92.8	65.9	42.7	22.1	11.0
-17.5°	191.8	133.7	95.0	67.3	43.6	22.6	11.0
-20°	192.8	135.5	96.9	68.7	44.4	23.1	11.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	193.7	136.8	98.6	69.8	45.1	23.6	11.0
-25°	193.8	138.4	99.9	70.8	45.8	24.0	11.0
-27.5°	192.9	139.8	101.0	71.6	46.3	24.4	11.0
-30°	191.2	140.8	101.8	72.3	46.8	24.7	11.0
-32.5°	188.6	141.2	103.2	72.7	47.2	25.0	11.0
-35°	187.6	141.2	104.3	73.0	47.4	25.3	11.0
-37.5°	187.1	141.2	105.0	73.1	47.6	25.5	11.0
-40°	185.9	141.8	105.5	73.0	47.7	25.7	11.0
-42.5°	183.9	142.1	105.9	72.9	47.7	25.9	11.0
-45°	181.2	141.9	106.1	73.0	47.6	25.9	11.0
-47.5°	177.8	141.4	105.9	73.0	47.4	26.0	11.0
-50°	176.0	140.5	105.5	73.0	47.1	26.0	11.0
-52.5°	174.1	139.2	104.8	72.9	46.7	26.0	11.0
-55°	171.8	137.5	103.7	72.6	46.2	25.9	11.0
-57.5°	169.0	135.4	102.4	72.1	45.7	25.8	11.0
-60°	165.9	133.0	100.8	71.4	45.0	25.6	11.0
-62.5°	162.2	130.1	99.4	70.5	44.3	25.4	11.0
-65°	158.0	126.9	97.8	69.4	43.5	25.2	11.0
-67.5°	153.4	123.7	95.9	68.2	42.6	24.9	11.0
-70°	148.4	120.4	93.8	66.7	41.6	24.6	11.0
-72.5°	143.3	116.7	91.4	65.2	40.5	24.2	11.0
-75°	137.8	112.8	88.8	63.5	39.4	23.8	11.0
-77.5°	132.0	108.5	86.1	61.6	38.1	23.4	11.0
-80°	125.8	104.5	83.2	59.6	36.7	22.9	11.0
-82.5°	120.9	100.6	80.2	57.5	35.3	22.4	11.0
-85°	116.0	96.5	77.0	55.2	33.8	21.9	11.0
-87.5°	110.9	92.2	73.6	52.9	32.3	21.4	11.0
-90°	8.6	8.6	8.6	8.6	8.6	9.8	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

