

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: P731589 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-57-80-5S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731589 (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-57-80-5S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

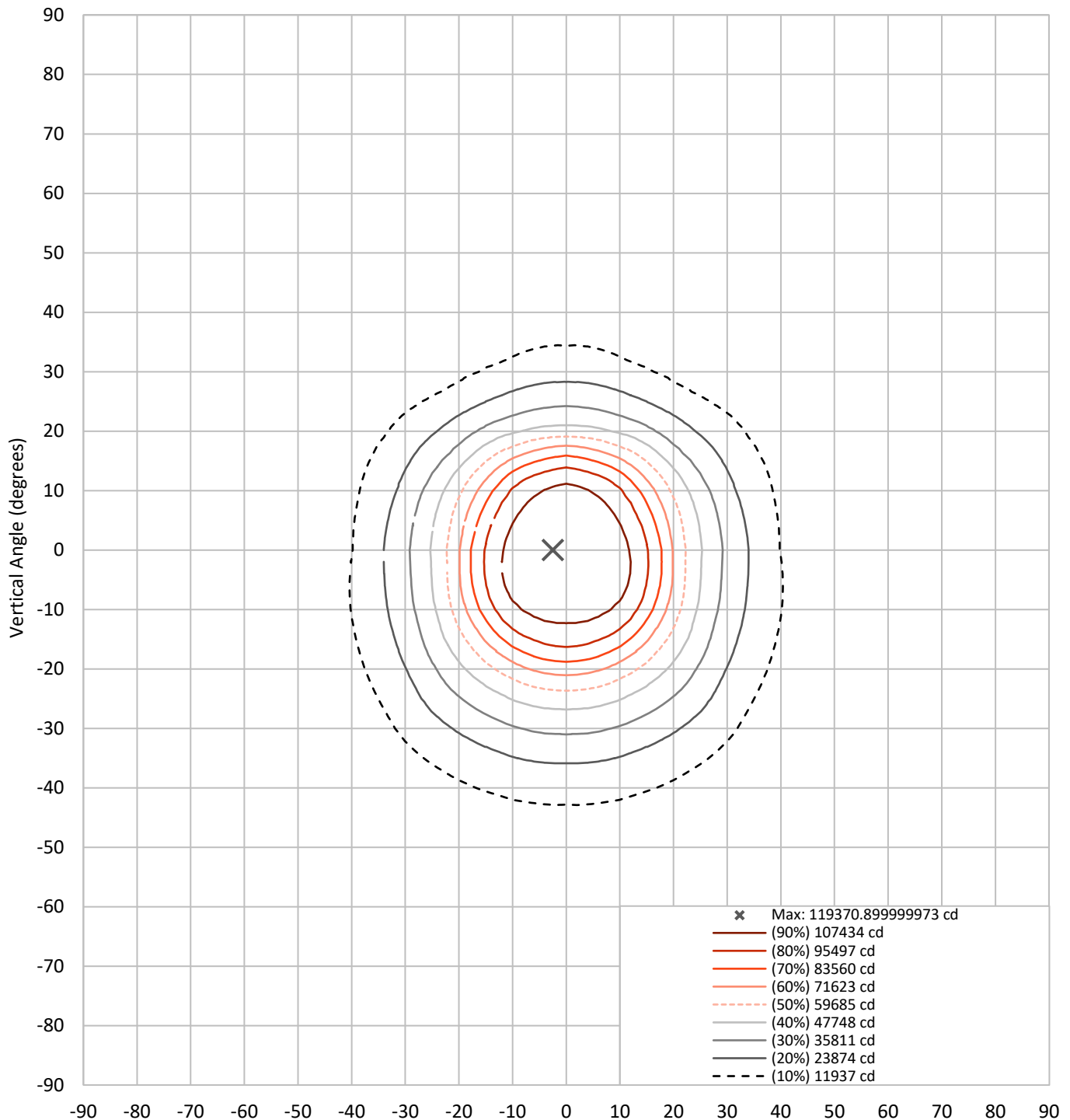
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	77726.6 lumens	Max Intensity:	119370.9 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	138.8 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:	42679.3 lumens	Field Lumens:	71421.2 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





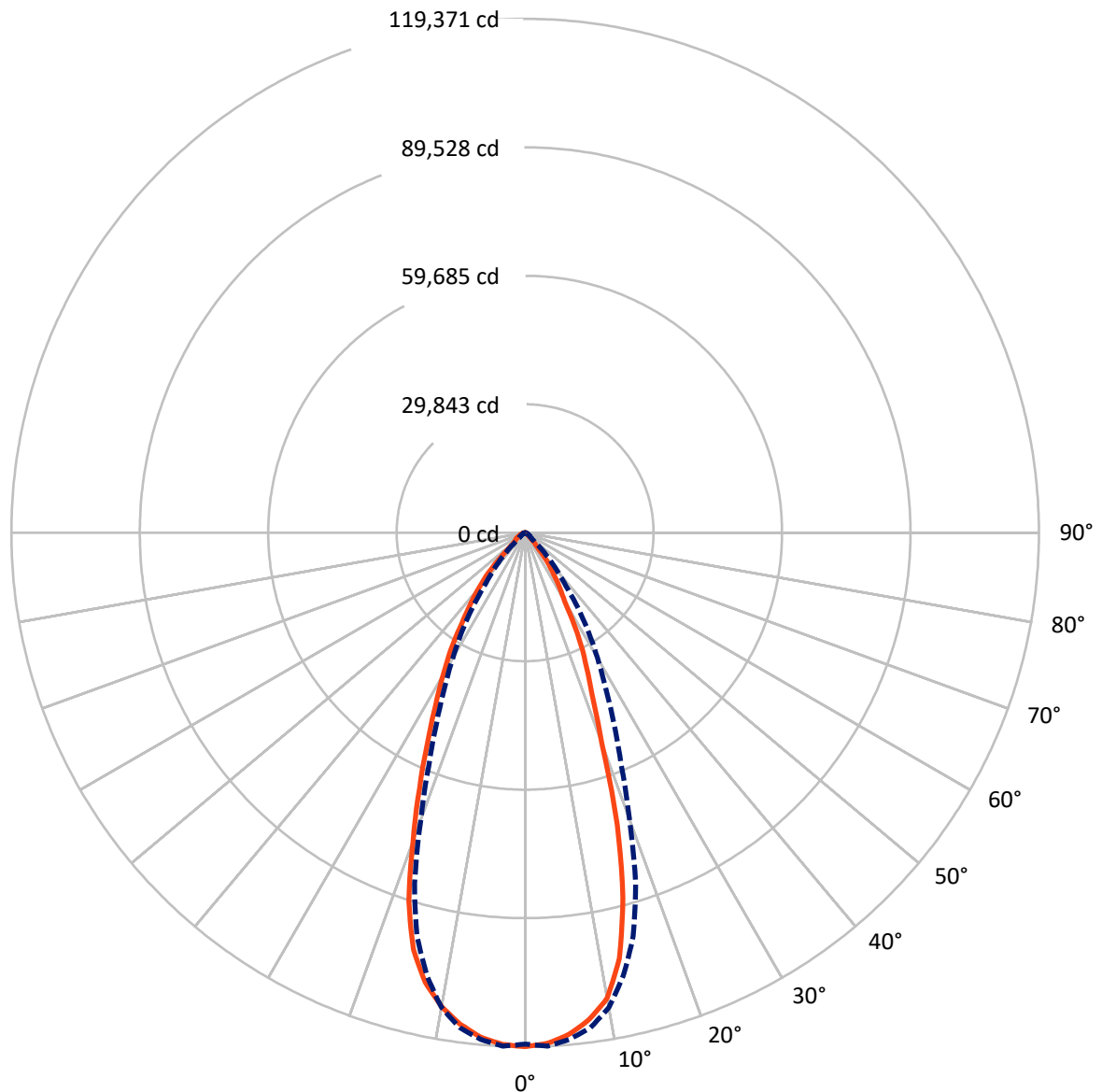
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Lumen Table

90	0.3	1.1	2.0	2.6	3.0	2.6	2.0	1.1	0.3							
80	0.3	0.2	0.2	0.4	0.6	0.6	0.7	0.8	0.8	0.7	0.6	0.6	0.4	0.2	0.2	0.3
70	0.3	0.4	0.7	1.1	1.1	0.8	1.0	1.1	1.1	1.0	0.8	1.1	1.1	0.7	0.4	0.3
60	0.3	1.1	2.3	4.7	8.4	17.1	37.7	50.9	50.9	37.7	17.1	8.4	4.7	2.3	1.1	0.9
50	0.9	2.3	7.7	15.8	40.0	118.6	219.7	323.8	323.8	219.7	118.6	40.0	15.8	7.7	2.3	0.9
40	0.9	4.0	13.4	34.2	164.6	389.0	715.1	981.8	981.8	715.1	389.0	164.6	34.2	13.4	4.0	1.9
30	1.9	5.5	17.9	77.4	359.4	888.4	1728.6	2470.4	2470.4	1728.6	888.4	359.4	77.4	17.9	5.5	1.9
20	1.9	6.9	21.1	117.4	506.0	1290.1	2588.2	3433.3	3433.3	2588.2	1290.1	506.0	117.4	21.1	6.9	2.8
10	2.8	7.6	23.5	125.1	545.1	1352.9	2745.8	3487.0	3487.0	2745.8	1352.9	545.1	125.1	23.5	7.6	2.8
0	2.8	7.9	24.8	103.2	464.2	1130.6	2129.9	2875.8	2875.8	2129.9	1130.6	464.2	103.2	24.8	7.9	3.4
-10	3.4	7.5	24.7	64.1	301.0	748.6	1244.8	1613.7	1613.7	1244.8	748.6	301.0	64.1	24.7	7.5	3.4
-20	3.4	6.7	21.7	46.2	122.5	364.2	612.7	778.5	778.5	612.7	364.2	122.5	46.2	21.7	6.7	3.4
-30	3.4	5.6	16.1	34.9	59.1	96.6	180.8	253.4	253.4	180.8	96.6	59.1	34.9	16.1	5.6	3.4
-40	3.4	4.6	10.6	21.9	38.7	54.2	66.7	76.3	76.3	66.7	54.2	38.7	21.9	10.6	4.6	3.1
-50	3.1	3.7	7.1	12.3	20.0	27.4	34.9	40.2	40.2	34.9	27.4	20.0	12.3	7.1	3.7	3.1
-60	3.1	3.7	7.1	12.3	20.0	27.4	34.9	40.2	40.2	34.9	27.4	20.0	12.3	7.1	3.7	3.1
-70	3.1	3.7	7.1	12.3	20.0	27.4	34.9	40.2	40.2	34.9	27.4	20.0	12.3	7.1	3.7	3.1
-80	2.3	13.6	30.1	47.2	57.9	47.2	30.1	13.6	2.3							
-90	2.3	13.6	30.1	47.2	57.9	47.2	30.1	13.6	2.3							

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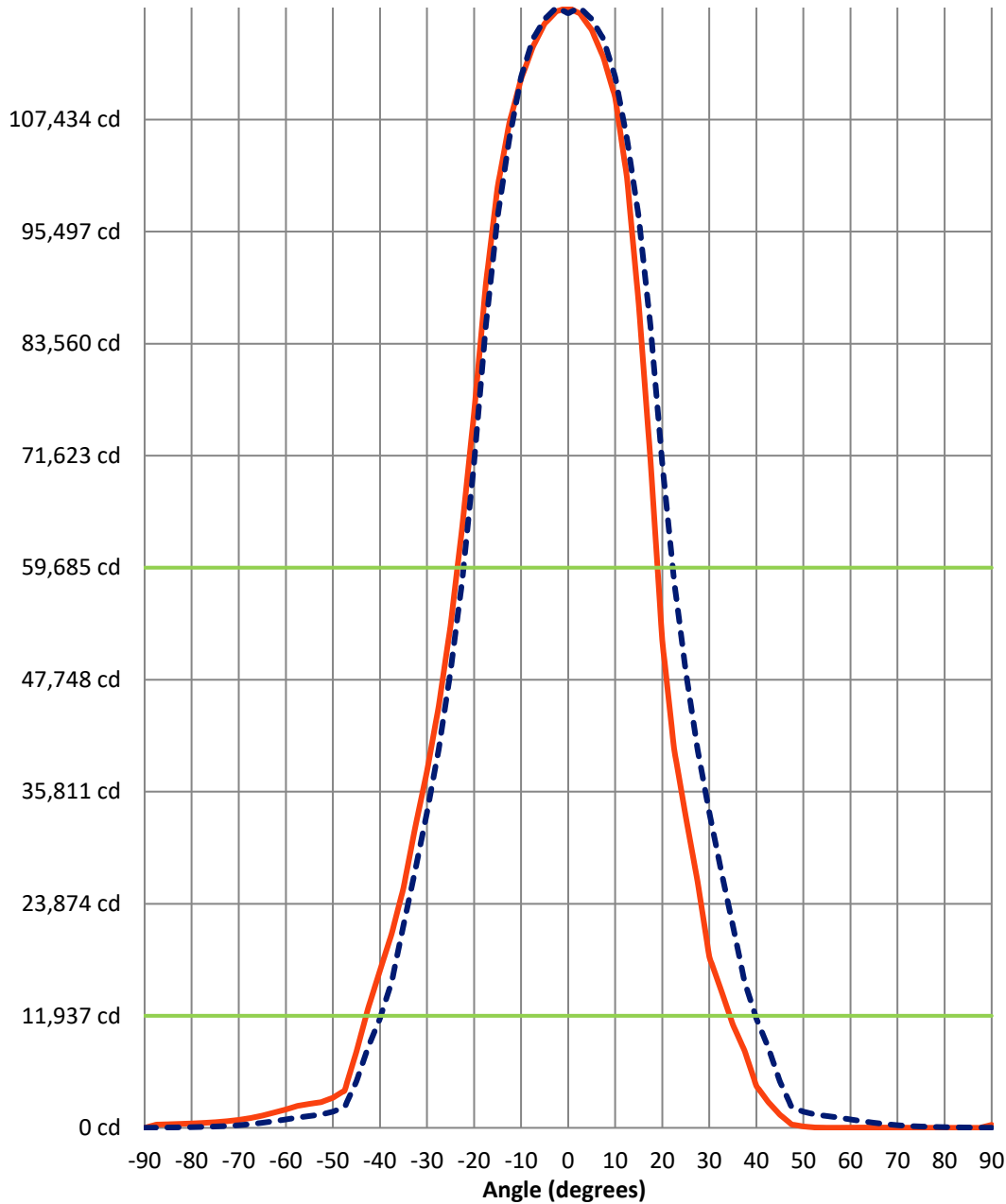
Luminous Intensity Polar Plot



— 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: 42679.3
 Efficiency: 54.9%

Field:
 H Angle: 79.6°
 V Angle: 77.3°
 Lumens: 71421.2
 Efficiency: 91.9%

Spill:
 Lumens: 6305.4
 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°	10.3	20.1	30.0	49.7	69.4	87.7	106.0	121.0	136.0	146.8	157.6
87.5°	10.3	9.6	8.7	8.7	8.7	8.8	8.9	8.5	8.2	8.0	7.9
85°	10.3	9.8	8.9	9.0	9.1	9.2	9.4	9.1	8.8	8.6	8.3
82.5°	10.3	10.0	9.2	9.3	9.4	9.6	9.9	9.7	9.5	9.1	8.7
80°	10.3	10.2	9.5	9.7	9.7	10.0	10.4	10.3	10.1	9.8	9.2
77.5°	10.3	10.4	9.7	10.0	10.1	10.5	10.9	10.9	10.8	10.4	9.7
75°	10.3	10.6	10.0	10.3	10.5	11.2	11.4	11.4	11.4	10.9	10.1
72.5°	10.3	10.8	10.3	10.6	11.2	11.8	12.0	12.0	11.9	11.3	10.6
70°	10.3	11.1	10.6	11.0	11.8	12.5	12.6	12.7	12.4	11.7	11.5
67.5°	10.3	11.3	11.0	11.5	12.5	13.2	13.4	13.5	13.0	12.8	12.5
65°	10.3	11.5	11.3	12.1	13.2	13.9	14.3	14.3	14.3	13.9	13.9
62.5°	10.3	11.7	11.7	12.6	13.9	14.7	15.1	15.5	15.7	15.4	16.2
60°	10.3	12.0	12.0	13.2	14.5	15.5	16.0	17.0	17.1	18.6	18.8
57.5°	10.3	12.2	12.6	13.7	15.5	16.3	17.8	18.5	21.1	22.5	24.0
55°	10.3	12.4	13.3	14.2	16.5	17.1	19.9	20.5	26.2	28.0	30.9
52.5°	10.3	12.7	14.0	14.8	17.6	18.2	22.1	25.8	31.8	36.4	38.6
50°	10.3	12.9	14.7	15.3	18.8	20.8	24.5	31.6	38.7	45.4	49.9
47.5°	10.3	13.1	15.4	15.9	20.0	23.5	27.5	37.5	47.4	54.9	62.6
45°	10.3	13.4	16.2	17.0	21.4	26.4	32.7	43.4	56.3	67.1	75.9
42.5°	10.3	13.6	17.0	18.0	22.8	29.4	37.9	50.7	65.6	79.8	96.1
40°	10.3	13.8	17.9	19.6	24.8	32.5	43.4	59.0	75.8	92.9	118.5
37.5°	10.3	14.1	18.8	21.5	27.2	35.8	49.4	67.4	87.7	108.7	142.2
35°	10.3	14.3	19.7	23.4	29.7	40.1	55.4	75.9	100.0	130.1	169.5
32.5°	10.3	14.5	20.6	25.4	32.3	44.9	61.9	84.9	112.6	151.9	200.7
30°	10.3	14.7	21.6	27.4	34.8	49.7	69.4	94.4	125.4	174.1	231.2
27.5°	10.3	15.0	22.6	29.4	38.2	54.3	76.8	104.8	139.7	196.4	261.2
25°	10.3	15.2	23.6	31.5	41.7	58.9	84.0	114.7	156.3	220.5	290.5
22.5°	10.3	15.4	24.6	33.5	45.1	63.7	91.0	124.2	172.0	241.2	321.5
20°	10.3	15.6	25.6	35.6	48.5	68.8	97.8	133.3	186.7	260.8	347.5
17.5°	10.3	15.8	26.5	37.6	51.7	73.7	104.5	141.9	200.4	279.3	371.9
15°	10.3	16.0	27.5	39.6	54.9	78.3	111.0	150.3	213.1	296.4	395.2
12.5°	10.3	16.1	28.5	41.6	57.9	82.8	117.2	158.5	225.9	312.2	416.9
10°	10.3	16.3	29.4	43.6	60.9	87.0	123.0	166.2	238.5	330.9	440.0
7.5°	10.3	16.5	30.3	45.5	63.7	91.0	128.3	173.4	250.3	348.9	467.5
5°	10.3	16.6	31.2	47.3	66.4	94.7	133.2	180.0	260.9	365.7	493.4
2.5°	10.3	16.8	32.0	49.0	68.9	98.1	137.7	186.0	270.4	380.8	517.2
0°	10.3	16.9	32.8	50.7	71.3	101.3	141.7	191.4	278.6	394.0	538.5
-2.5°	10.3	17.5	34.2	52.9	74.6	105.9	147.7	199.2	288.1	405.2	549.5
-5°	10.3	18.2	35.6	55.1	77.8	110.3	153.3	206.2	296.2	414.2	557.6
-7.5°	10.3	18.8	36.8	57.1	80.7	114.2	158.3	212.5	302.8	421.1	562.9
-10°	10.3	19.4	38.0	58.9	83.5	117.9	162.7	218.0	307.9	425.7	565.4
-12.5°	10.3	20.0	39.2	60.7	86.0	121.1	166.6	222.6	311.3	428.1	569.3
-15°	10.3	20.5	40.2	62.3	88.3	123.9	169.9	226.3	313.2	428.8	571.4
-17.5°	10.3	21.0	41.2	63.8	90.4	126.4	172.5	229.4	313.6	427.0	569.0
-20°	10.3	21.5	42.0	65.2	92.2	128.3	174.9	232.1	312.4	422.6	562.0



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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°	10.3	22.0	42.8	66.4	93.8	129.9	177.3	234.0	309.6	415.6	550.7
-25°	10.3	22.4	43.5	67.4	95.1	131.7	179.0	235.0	305.2	405.9	540.9
-27.5°	10.3	22.8	44.1	68.3	96.1	133.4	180.0	235.1	299.2	399.4	533.6
-30°	10.3	23.2	44.6	69.1	97.0	134.7	180.4	234.5	296.7	394.3	522.4
-32.5°	10.3	23.5	45.0	69.6	98.6	135.6	180.0	233.9	296.4	386.4	506.8
-35°	10.3	23.8	45.3	70.1	100.0	136.0	180.1	233.0	294.8	375.8	486.9
-37.5°	10.3	24.0	45.5	70.3	101.1	136.4	180.0	231.6	291.6	362.4	468.8
-40°	10.3	24.2	45.7	70.4	101.9	137.4	179.5	229.2	287.0	354.4	451.4
-42.5°	10.3	24.4	45.7	70.6	102.7	138.1	178.5	225.8	282.5	347.7	430.9
-45°	10.3	24.5	45.6	71.0	103.2	138.5	176.9	222.6	277.5	339.1	409.4
-47.5°	10.3	24.6	45.4	71.2	103.4	138.5	174.8	219.9	271.3	328.7	397.4
-50°	10.3	24.6	45.1	71.2	103.2	138.1	174.0	216.5	263.4	319.3	383.2
-52.5°	10.3	24.6	44.7	71.1	102.8	137.4	173.0	212.3	256.7	308.2	366.2
-55°	10.3	24.6	44.2	70.8	101.9	136.2	171.6	207.7	250.1	295.4	348.9
-57.5°	10.3	24.5	43.6	70.2	100.8	134.5	169.7	205.4	242.6	285.4	330.1
-60°	10.3	24.4	42.9	69.5	99.3	132.5	167.3	202.1	235.1	275.4	312.2
-62.5°	10.3	24.2	42.3	68.6	97.9	130.0	164.2	198.1	230.3	264.0	297.9
-65°	10.3	24.0	41.6	67.5	96.2	127.2	160.6	193.5	224.8	255.1	282.7
-67.5°	10.3	23.7	40.8	66.2	94.3	124.2	156.5	188.0	218.8	246.7	271.0
-70°	10.3	23.5	39.9	64.7	92.1	120.8	152.1	181.9	211.4	237.7	260.3
-72.5°	10.3	23.2	39.0	63.3	89.6	117.1	146.7	175.4	203.4	227.5	249.0
-75°	10.3	22.8	37.9	61.8	87.0	113.0	140.8	167.7	194.9	216.9	237.1
-77.5°	10.3	22.4	36.7	60.1	84.4	108.5	134.5	159.4	184.8	205.4	224.8
-80°	10.3	22.0	35.5	58.3	81.8	104.4	127.7	150.6	174.1	192.4	210.4
-82.5°	10.3	21.6	34.2	56.3	78.9	100.6	122.5	142.4	162.9	179.0	195.0
-85°	10.3	21.1	32.9	54.2	75.9	96.5	117.2	135.5	154.1	167.6	181.0
-87.5°	10.3	20.7	31.5	52.0	72.7	92.2	111.7	128.4	145.2	157.3	169.4
-90°	10.3	9.4	8.4	8.4	8.4	8.4	8.4	8.0	7.5	7.5	7.5



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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°	164.2	170.7	176.8	182.9	190.4	197.9	205.9	213.9	222.4	230.8	238.8
87.5°	7.5	7.1	7.1	7.1	6.7	6.2	5.9	5.6	5.2	4.7	4.6
85°	7.9	7.5	7.6	7.5	7.2	6.9	6.5	6.0	5.6	5.2	5.2
82.5°	8.5	8.5	8.1	7.6	7.4	7.4	7.1	6.6	6.2	5.9	5.8
80°	9.2	9.4	8.7	7.9	7.7	7.5	7.1	6.7	6.6	6.6	6.3
77.5°	9.6	9.5	8.9	8.4	8.1	7.8	7.5	7.2	7.0	6.7	6.6
75°	9.8	9.5	9.2	8.7	8.3	8.3	8.2	7.9	7.7	7.7	7.7
72.5°	10.4	10.1	9.6	8.9	8.6	8.9	8.9	8.6	8.8	9.2	9.2
70°	11.2	10.8	10.2	9.6	9.2	9.6	10.0	10.6	11.4	11.5	12.4
67.5°	12.1	11.7	10.9	10.4	10.1	10.7	11.3	13.6	15.8	17.0	18.3
65°	13.5	12.8	12.0	11.8	11.3	13.6	15.5	17.9	22.4	24.5	24.4
62.5°	15.1	15.3	14.2	14.4	16.3	18.3	21.7	26.9	32.1	34.1	32.3
60°	19.2	18.6	18.7	20.0	22.0	24.5	29.7	36.1	42.1	45.3	40.5
57.5°	24.5	24.4	25.8	26.6	29.4	30.2	37.2	45.1	50.2	54.1	47.7
55°	32.1	32.4	35.1	36.0	38.0	37.9	44.0	51.4	56.7	58.5	51.8
52.5°	42.6	43.1	48.1	48.7	48.1	48.7	51.0	58.9	63.4	63.5	57.6
50°	54.2	60.2	63.3	65.3	61.6	63.9	61.8	70.7	77.4	76.7	78.9
47.5°	71.3	79.4	83.8	87.1	84.3	91.3	89.8	103.4	108.0	133.8	137.9
45°	91.6	104.4	110.4	117.7	125.8	134.2	156.0	156.1	217.0	241.0	304.2
42.5°	114.3	133.6	150.2	153.1	193.6	217.1	246.9	307.9	367.4	442.2	470.7
40°	144.5	165.9	199.7	237.8	282.7	333.9	389.3	463.4	541.6	580.3	585.1
37.5°	177.9	218.1	265.2	334.4	403.4	470.6	540.8	613.3	669.7	684.0	736.5
35°	213.8	272.8	360.7	440.2	520.4	613.3	675.8	742.5	776.3	835.6	936.6
32.5°	258.9	328.9	438.2	541.6	630.7	731.9	791.7	842.8	922.2	1024.8	1248.1
30°	306.1	392.2	502.7	622.1	731.9	816.7	884.8	949.0	1073.3	1321.4	2086.6
27.5°	345.3	446.5	562.8	695.9	821.1	898.5	975.7	1087.7	1309.9	1821.1	3272.4
25°	380.5	490.4	621.7	776.1	898.8	984.0	1084.5	1242.6	1591.3	2978.8	4838.7
22.5°	414.9	533.7	688.9	860.5	977.6	1068.0	1220.2	1505.9	2236.4	4187.1	6422.4
20°	450.4	589.0	761.9	938.9	1053.0	1142.4	1338.7	1761.6	3257.0	5487.9	7820.0
17.5°	487.6	644.8	832.9	994.7	1101.4	1220.5	1463.7	1971.3	4108.9	6702.8	9313.3
15°	524.0	698.3	893.7	1042.8	1145.7	1304.7	1631.7	2589.9	5009.8	8059.3	10909.9
12.5°	558.8	746.9	940.8	1080.6	1189.4	1383.2	1769.6	3271.3	6093.0	9318.9	12297.9
10°	591.6	790.5	980.4	1116.2	1236.9	1467.0	1902.5	3938.4	7041.3	10137.4	13154.6
7.5°	625.3	826.7	1013.9	1150.3	1282.7	1545.9	2048.8	4456.6	7749.3	10767.0	13816.5
5°	655.8	854.6	1046.1	1188.4	1330.0	1616.0	2167.1	4852.8	8280.5	11287.2	14406.0
2.5°	682.5	876.5	1073.5	1224.2	1376.0	1674.6	2201.1	4963.0	8530.1	11567.1	14985.9
0°	705.4	893.1	1095.7	1256.1	1417.4	1722.3	2210.1	4943.7	8591.9	11651.9	15550.6
-2.5°	718.4	914.4	1135.3	1301.9	1454.5	1760.8	2256.9	4951.0	8644.1	12245.8	16276.6
-5°	727.5	930.5	1167.9	1342.5	1487.4	1787.8	2282.9	4838.5	8573.5	12558.5	16488.9
-7.5°	732.6	940.5	1191.8	1376.2	1517.2	1807.4	2297.6	4655.4	8577.4	12572.7	16221.9
-10°	735.3	950.1	1203.1	1395.2	1542.8	1816.8	2290.5	4341.1	8236.9	12232.3	15782.2
-12.5°	744.2	959.0	1207.0	1409.2	1563.2	1819.0	2301.0	4033.5	7598.2	11612.8	15153.6
-15°	747.6	961.3	1204.8	1420.8	1596.2	1841.2	2301.3	3555.7	6769.0	10826.7	14363.0
-17.5°	745.3	956.9	1197.9	1437.5	1626.7	1843.0	2249.1	2929.0	5821.9	9708.3	13322.2
-20°	737.1	947.0	1183.0	1445.8	1644.1	1858.3	2233.8	2827.2	4893.7	8309.9	12058.3



REPORT NUMBER: P731589 (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°	725.4	931.6	1161.5	1427.5	1664.0	1891.7	2212.9	2691.8	3802.3	6712.6	10493.8
-25°	711.3	914.6	1138.5	1406.5	1673.2	1913.1	2148.0	2511.1	3161.4	5345.8	8557.3
-27.5°	696.6	890.5	1114.0	1371.6	1667.7	1902.9	2109.8	2411.0	2870.5	3827.3	6539.6
-30°	678.0	861.5	1078.0	1326.4	1618.3	1871.5	2086.5	2281.4	2595.2	3170.2	4798.3
-32.5°	655.2	827.5	1037.8	1275.0	1543.8	1833.9	2032.6	2202.0	2441.1	2793.4	3461.4
-35°	629.5	797.6	993.2	1210.1	1455.5	1739.4	1951.7	2130.9	2292.4	2563.6	2990.8
-37.5°	603.2	760.5	935.7	1141.3	1375.0	1606.8	1857.4	2036.0	2198.7	2368.9	2673.1
-40°	572.5	714.5	878.6	1068.7	1266.9	1477.2	1709.7	1933.3	2094.1	2271.5	2453.9
-42.5°	539.0	670.9	817.4	982.3	1160.2	1349.3	1555.5	1779.6	1995.1	2164.7	2332.4
-45°	511.9	623.6	752.3	899.2	1052.3	1220.5	1408.6	1604.9	1833.7	2053.3	2208.4
-47.5°	479.1	576.6	695.3	811.7	950.3	1100.4	1261.0	1447.0	1638.8	1855.1	2067.2
-50°	447.8	537.1	628.4	733.5	851.0	983.0	1126.2	1289.9	1467.3	1644.5	1836.9
-52.5°	426.4	494.7	572.5	655.3	758.1	871.2	998.1	1137.1	1292.6	1447.4	1614.2
-55°	403.0	462.1	517.9	588.1	668.9	767.0	877.2	998.7	1117.2	1258.6	1400.2
-57.5°	380.0	429.0	473.9	527.8	595.2	667.3	767.4	868.5	971.5	1080.9	1200.7
-60°	356.7	396.9	436.1	479.6	528.8	592.6	662.3	746.8	831.0	918.4	1024.3
-62.5°	333.4	366.2	399.8	437.4	479.2	522.3	579.2	640.8	699.8	779.4	863.8
-65°	314.8	337.3	365.1	398.2	431.9	471.3	511.0	549.5	601.3	661.7	722.9
-67.5°	294.8	315.9	336.3	359.5	390.0	422.5	455.3	489.9	524.9	566.4	611.1
-70°	280.1	295.1	313.2	332.4	352.4	375.9	405.1	433.8	463.4	498.0	533.5
-72.5°	266.2	280.0	293.6	307.0	325.0	344.6	363.9	383.1	407.7	437.2	465.6
-75°	252.1	264.8	277.2	289.4	302.9	317.6	332.7	350.0	369.2	389.6	409.3
-77.5°	237.6	248.8	260.2	271.4	283.8	296.7	309.9	323.2	338.3	354.1	369.4
-80°	222.1	232.6	242.7	252.7	263.9	275.4	287.2	299.1	312.4	326.1	338.8
-82.5°	205.0	214.3	223.8	233.1	243.4	253.7	264.2	274.6	286.3	298.2	309.1
-85°	188.6	195.9	204.2	212.4	221.9	231.2	240.6	249.9	260.7	271.4	280.8
-87.5°	176.4	183.3	190.1	196.8	204.9	212.9	221.1	229.1	238.5	247.9	256.2
-90°	7.1	6.6	6.6	6.6	6.1	5.6	5.6	5.6	5.2	4.7	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°	246.7	251.9	257.0	261.3	265.5	271.1	276.7	284.2	291.7	299.3	306.8
87.5°	4.5	4.2	3.8	3.7	3.7	3.7	3.7	3.3	2.8	2.8	2.8
85°	5.3	5.2	5.1	4.9	4.5	4.6	4.6	4.6	4.6	4.2	3.8
82.5°	5.6	5.6	5.6	5.2	4.7	4.7	4.7	4.7	4.7	4.3	3.8
80°	5.9	5.8	5.6	5.4	5.3	5.1	4.7	4.4	4.0	3.8	3.8
77.5°	6.7	6.4	6.0	5.9	5.7	5.2	4.8	4.3	3.9	3.8	3.8
75°	7.6	7.3	7.1	6.7	6.2	6.0	5.9	5.7	5.3	5.3	5.4
72.5°	9.1	8.9	8.9	9.1	9.1	9.4	9.9	10.2	10.6	11.4	12.2
70°	13.5	14.4	14.9	15.1	15.1	14.9	14.9	15.1	15.6	16.0	16.4
67.5°	19.8	21.2	22.0	22.4	20.9	20.1	20.2	20.6	21.4	22.7	24.6
65°	25.8	25.4	24.7	24.2	24.4	24.5	24.4	24.6	25.9	27.8	30.3
62.5°	30.3	26.2	23.8	22.6	23.4	24.8	23.8	23.1	24.1	25.4	26.6
60°	34.6	27.0	21.6	20.0	19.7	20.2	18.6	17.1	17.6	18.0	18.7
57.5°	38.7	28.9	20.1	17.1	14.3	12.9	12.5	12.0	11.7	11.4	11.5
55°	42.4	31.5	19.7	17.5	15.5	15.1	13.8	13.1	12.6	12.4	12.7
52.5°	47.0	40.5	32.3	30.0	33.8	34.1	30.2	35.8	40.1	42.1	42.9
50°	76.9	68.9	82.7	81.4	97.6	109.0	105.0	117.7	136.7	148.6	153.5
47.5°	169.0	169.3	196.6	220.8	240.9	267.0	287.1	306.6	333.6	350.4	358.0
45°	320.7	348.0	376.5	418.0	457.9	506.3	564.6	610.5	794.5	977.8	1144.5
42.5°	490.9	520.9	562.6	653.0	760.5	1009.2	1453.9	1702.1	2012.0	2349.2	2478.6
40°	632.6	676.1	790.7	1045.3	1665.3	2255.6	2904.1	3452.4	3937.8	4217.1	4450.5
37.5°	807.6	911.5	1433.3	2153.9	2924.7	3664.6	4332.4	4911.8	5414.8	5822.8	6226.6
35°	1062.7	1752.0	2522.9	3459.8	4279.2	4964.6	5656.5	6320.6	6891.0	7500.4	8405.7
32.5°	2014.5	2915.4	3907.1	4746.9	5547.8	6412.6	7139.6	8202.1	9034.2	10145.1	11842.8
30°	3233.4	4364.1	5263.3	6103.3	7130.3	8294.0	9507.9	11133.0	12831.1	14602.5	16425.5
27.5°	4798.4	5940.4	6888.5	8008.9	9364.8	10913.5	13234.5	15525.1	17960.5	20175.6	21859.2
25°	6684.8	7894.2	9514.8	11140.5	13080.8	15727.4	18335.1	21141.6	23583.3	25757.1	28190.6
22.5°	8452.8	10435.3	12575.3	15029.5	18189.4	21174.3	24398.4	27238.7	30302.8	33401.1	35797.4
20°	9945.3	12528.1	15597.8	19135.9	22638.4	26019.7	29771.7	34298.9	38860.6	42936.0	45893.3
17.5°	11958.7	15229.7	19050.7	23256.3	27027.0	31217.1	36439.1	42321.4	48713.4	54369.1	58853.5
15°	14158.6	17978.1	22298.7	26705.2	31475.7	37090.4	43805.2	51317.4	59136.1	67066.6	74455.0
12.5°	15654.1	20129.0	24847.1	30086.6	36036.8	43564.8	51718.3	60046.1	68981.2	78848.6	87419.1
10°	16932.7	21897.1	27589.2	33683.8	40520.9	48613.3	57040.3	67155.4	78308.5	88025.5	97205.3
7.5°	18197.2	24030.7	29976.7	36322.4	43834.2	52623.7	62597.1	73475.5	84825.9	95387.7	102894.7
5°	19693.6	25745.7	31691.2	38394.4	46260.9	55403.6	65923.3	78415.3	90374.2	100082.6	106853.5
2.5°	20930.9	26774.4	32862.5	39496.8	47581.6	57127.3	68544.7	82427.0	94698.0	103775.6	109902.5
0°	21560.9	27433.3	33599.3	40341.3	48629.2	58369.3	70826.1	85409.5	97007.0	105393.0	111954.4
-2.5°	21637.7	27223.8	33276.2	39925.7	48026.0	57959.2	70729.4	85485.1	97608.0	106324.0	112797.6
-5°	21414.0	26947.9	32988.6	39642.2	47633.0	57979.7	70801.9	84990.5	96704.7	105733.0	111829.6
-7.5°	20874.7	26441.1	32493.1	39048.8	46913.8	56948.6	68907.6	81768.7	93817.8	103572.7	109196.8
-10°	20084.6	25554.0	31512.6	37788.2	45205.4	54483.2	65178.4	76952.8	89128.5	98455.5	104941.4
-12.5°	19085.4	24261.7	29957.7	35890.8	42893.6	51537.5	61071.0	70930.4	81136.9	91770.3	98525.7
-15°	17938.2	22668.1	28000.0	33964.9	40888.3	48092.0	55664.8	63697.4	73027.9	81725.6	89589.1
-17.5°	16849.7	20923.4	25898.2	31709.9	37605.5	43864.7	50354.8	56913.0	64395.1	71222.6	77330.4
-20°	15481.7	18950.3	23534.1	28698.0	34176.3	39599.8	45174.5	50487.7	55919.4	61476.7	66327.6



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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°	13869.3	17242.6	21066.9	25563.1	30822.6	35649.5	40114.4	44266.6	48620.4	52465.7	56457.8
-25°	12112.8	15356.1	18870.6	22969.4	27007.5	31383.5	35089.1	38620.3	41997.3	45016.7	48121.0
-27.5°	9955.8	13379.8	16844.1	20124.5	23456.8	26598.8	30053.8	33311.7	36128.1	38619.0	41079.3
-30°	7525.8	11160.0	14437.1	17251.1	19892.9	22513.4	25158.6	27892.3	30558.5	32826.8	34841.9
-32.5°	5552.7	8584.4	11613.5	14371.1	16683.2	18849.1	20906.1	23051.0	24915.8	26830.5	28694.0
-35°	3673.8	5816.6	8331.2	11134.6	13542.7	15364.7	17229.9	18939.9	20345.7	21830.1	23236.9
-37.5°	3091.8	3662.0	5344.2	7620.2	9850.5	11945.8	13805.8	15292.5	16586.3	17772.0	18987.0
-40°	2727.3	3052.6	3531.2	4358.1	6233.8	8077.0	9993.3	11573.5	12951.9	14088.5	15207.2
-42.5°	2488.1	2711.3	2949.7	3275.4	3596.4	4499.1	6072.2	7436.1	8728.9	10009.5	11162.1
-45°	2364.2	2489.4	2625.8	2802.9	2940.2	3184.8	3458.1	3714.8	4743.6	5855.5	6786.2
-47.5°	2215.5	2349.1	2451.0	2534.4	2601.1	2708.6	2822.2	2970.7	3208.9	3489.7	3704.1
-50°	2025.4	2187.5	2289.3	2372.9	2420.9	2462.4	2503.3	2596.4	2725.4	2878.6	3000.1
-52.5°	1779.7	1940.2	2084.1	2192.9	2245.9	2297.6	2349.0	2413.0	2486.4	2574.8	2638.3
-55°	1548.2	1682.2	1806.8	1908.2	1999.7	2082.9	2163.0	2230.8	2309.9	2394.1	2453.2
-57.5°	1328.4	1436.6	1538.8	1626.6	1705.8	1775.9	1857.8	1946.7	2048.0	2144.5	2212.3
-60°	1123.0	1208.9	1294.0	1365.3	1429.7	1487.2	1562.9	1637.6	1726.3	1805.4	1862.9
-62.5°	939.2	1014.3	1077.2	1131.1	1179.6	1227.7	1291.4	1353.8	1426.8	1489.9	1537.7
-65°	780.3	843.0	887.3	927.3	962.5	1003.4	1052.7	1102.7	1160.1	1209.2	1248.4
-67.5°	657.8	700.3	728.2	752.9	782.0	814.6	851.8	891.8	936.4	973.5	1003.6
-70°	565.2	591.7	608.6	627.0	648.3	670.9	696.1	726.2	760.1	789.0	813.9
-72.5°	492.0	512.2	526.2	540.4	553.2	568.6	585.6	608.1	633.1	655.7	676.8
-75°	428.4	442.9	455.9	468.3	479.4	492.5	506.0	525.0	545.5	564.2	581.8
-77.5°	385.7	396.9	405.6	413.9	422.0	432.8	444.0	459.2	475.3	490.7	505.7
-80°	351.5	360.2	367.5	373.5	379.1	388.3	397.9	410.4	423.1	436.4	449.7
-82.5°	319.8	327.4	334.4	340.1	345.5	353.8	362.3	373.5	384.8	395.9	406.8
-85°	290.1	297.0	303.6	309.1	314.5	321.3	328.0	337.6	347.3	357.4	367.4
-87.5°	264.3	270.8	277.3	281.6	285.9	291.8	297.8	306.1	314.4	323.0	331.7
-90°	3.8	3.8	3.8	3.3	2.8	2.8	2.8	2.4	1.9	1.9	1.9



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	310.6	314.3	316.2	318.0	316.2	314.3	310.6	306.8	299.3	291.7	284.2
87.5°	2.3	1.9	1.9	1.9	1.9	1.9	2.3	2.8	2.8	2.8	3.3
85°	3.3	2.8	3.3	3.8	3.3	2.8	3.3	3.8	4.2	4.6	4.6
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.3	4.7	4.7
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.0	4.4
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.9	4.3
75°	5.1	4.7	4.7	4.7	4.7	4.7	5.1	5.4	5.3	5.3	5.7
72.5°	12.6	12.9	13.5	14.1	13.5	12.9	12.6	12.2	11.4	10.6	10.2
70°	16.6	16.8	16.9	16.9	16.9	16.8	16.6	16.4	16.0	15.6	15.1
67.5°	25.5	26.0	27.0	28.1	27.0	26.0	25.5	24.6	22.7	21.4	20.6
65°	32.0	33.3	33.7	33.8	33.7	33.3	32.0	30.3	27.8	25.9	24.6
62.5°	27.7	29.0	29.2	29.1	29.2	29.0	27.7	26.6	25.4	24.1	23.1
60°	19.3	19.9	20.2	20.6	20.2	19.9	19.3	18.7	18.0	17.6	17.1
57.5°	11.7	12.3	12.3	12.2	12.3	12.3	11.7	11.5	11.4	11.7	12.0
55°	12.8	13.0	12.7	12.2	12.7	13.0	12.8	12.7	12.4	12.6	13.1
52.5°	41.8	39.7	37.6	35.6	37.6	39.7	41.8	42.9	42.1	40.1	35.8
50°	151.9	149.4	145.8	141.7	145.8	149.4	151.9	153.5	148.6	136.7	117.7
47.5°	364.8	365.5	362.0	355.5	362.0	365.5	364.8	358.0	350.4	333.6	306.6
45°	1289.7	1359.9	1397.7	1424.0	1397.7	1359.9	1289.7	1144.5	977.8	794.5	610.5
42.5°	2591.8	2690.3	2765.0	2780.5	2765.0	2690.3	2591.8	2478.6	2349.2	2012.0	1702.1
40°	4727.2	4743.6	4469.3	4055.3	4469.3	4743.6	4727.2	4450.5	4217.1	3937.8	3452.4
37.5°	6707.8	7399.9	8204.0	8614.4	8204.0	7399.9	6707.8	6226.6	5822.8	5414.8	4911.8
35°	9627.3	10668.4	11006.2	11015.0	11006.2	10668.4	9627.3	8405.7	7500.4	6891.0	6320.6
32.5°	13373.9	14220.4	14672.3	14549.6	14672.3	14220.4	13373.9	11842.8	10145.1	9034.2	8202.1
30°	17487.9	18224.4	18230.3	17984.0	18230.3	18224.4	17487.9	16425.5	14602.5	12831.1	11133.0
27.5°	23601.8	25158.1	26253.5	26548.6	26253.5	25158.1	23601.8	21859.2	20175.6	17960.5	15525.1
25°	30383.3	32093.5	33145.0	33528.0	33145.0	32093.5	30383.3	28190.6	25757.1	23583.3	21141.6
22.5°	38027.5	39690.3	40449.1	40845.9	40449.1	39690.3	38027.5	35797.4	33401.1	30302.8	27238.7
20°	48712.5	51076.6	51967.8	52348.7	51967.8	51076.6	48712.5	45893.3	42936.0	38860.6	34298.9
17.5°	63513.0	68182.2	71101.6	72600.9	71101.6	68182.2	63513.0	58853.5	54369.1	48713.4	42321.4
15°	79923.0	84663.1	87780.4	89649.6	87780.4	84663.1	79923.0	74455.0	67066.6	59136.1	51317.4
12.5°	94000.7	98226.3	101237.3	103027.1	101237.3	98226.3	94000.7	87419.1	78848.6	68981.2	60046.1
10°	103032.0	106655.9	109779.6	111305.2	109779.6	106655.9	103032.0	97205.3	88025.5	78308.5	67155.4
7.5°	108136.3	112350.0	114043.3	115086.7	114043.3	112350.0	108136.3	102894.7	95387.7	84825.9	73475.5
5°	112092.2	115422.1	116985.2	117748.0	116985.2	115422.1	112092.2	106853.5	100082.6	90374.2	78415.3
2.5°	114732.9	117623.7	118729.2	119344.6	118729.2	117623.7	114732.9	109902.5	103775.6	94698.0	82427.0
0°	116000.3	118131.7	119370.9	118766.7	119370.9	118131.7	116000.3	111954.4	105393.0	97007.0	85409.5
-2.5°	116009.2	118035.1	118956.2	118507.8	118956.2	118035.1	116009.2	112797.6	106324.0	97608.0	85485.1
-5°	115016.7	116528.7	117650.6	117291.1	117650.6	116528.7	115016.7	111829.6	105733.0	96704.7	84990.5
-7.5°	112340.1	114349.6	115171.4	115211.4	115171.4	114349.6	112340.1	109196.8	103572.7	93817.8	81768.7
-10°	108658.1	110886.0	111760.9	111850.3	111760.9	110886.0	108658.1	104941.4	98455.5	89128.5	76952.8
-12.5°	103185.7	105799.1	107058.3	107282.8	107058.3	105799.1	103185.7	98525.7	91770.3	81136.9	70930.4
-15°	94690.5	98213.1	100201.4	100899.1	100201.4	98213.1	94690.5	89589.1	81725.6	73027.9	63697.4
-17.5°	83141.6	87350.4	89829.7	90704.0	89829.7	87350.4	83141.6	77330.4	71222.6	64395.1	56913.0
-20°	71095.1	74215.3	76126.6	76914.2	76126.6	74215.3	71095.1	66327.6	61476.7	55919.4	50487.7



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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°	60137.6	62653.3	64073.4	64704.2	64073.4	62653.3	60137.6	56457.8	52465.7	48620.4	44266.6
-25°	50634.1	52752.9	53481.1	53891.8	53481.1	52752.9	50634.1	48121.0	45016.7	41997.3	38620.3
-27.5°	42869.0	44549.9	44942.2	45304.6	44942.2	44549.9	42869.0	41079.3	38619.0	36128.1	33311.7
-30°	36326.0	37788.7	37988.7	38390.0	37988.7	37788.7	36326.0	34841.9	32826.8	30558.5	27892.3
-32.5°	30207.1	31509.5	32008.5	32085.2	32008.5	31509.5	30207.1	28694.0	26830.5	24915.8	23051.0
-35°	24347.7	25206.1	25545.7	25566.5	25545.7	25206.1	24347.7	23236.9	21830.1	20345.7	18939.9
-37.5°	19740.8	20288.1	20681.5	20573.1	20681.5	20288.1	19740.8	18987.0	17772.0	16586.3	15292.5
-40°	15834.1	16384.6	16744.1	16656.6	16744.1	16384.6	15834.1	15207.2	14088.5	12951.9	11573.5
-42.5°	11797.8	12403.3	12743.1	12649.1	12743.1	12403.3	11797.8	11162.1	10009.5	8728.9	7436.1
-45°	7316.7	7850.4	8100.8	7948.4	8100.8	7850.4	7316.7	6786.2	5855.5	4743.6	3714.8
-47.5°	3817.1	3938.5	3977.4	3923.1	3977.4	3938.5	3817.1	3704.1	3489.7	3208.9	2970.7
-50°	3094.9	3171.1	3203.9	3194.2	3203.9	3171.1	3094.9	3000.1	2878.6	2725.4	2596.4
-52.5°	2688.1	2723.3	2734.9	2727.9	2734.9	2723.3	2688.1	2638.3	2574.8	2486.4	2413.0
-55°	2503.1	2538.1	2550.2	2546.0	2550.2	2538.1	2503.1	2453.2	2394.1	2309.9	2230.8
-57.5°	2268.6	2311.5	2338.1	2351.8	2338.1	2311.5	2268.6	2212.3	2144.5	2048.0	1946.7
-60°	1909.2	1943.5	1953.4	1948.4	1953.4	1943.5	1909.2	1862.9	1805.4	1726.3	1637.6
-62.5°	1575.3	1603.6	1624.6	1638.8	1624.6	1603.6	1575.3	1537.7	1489.9	1426.8	1353.8
-65°	1277.2	1297.6	1301.9	1298.3	1301.9	1297.6	1277.2	1248.4	1209.2	1160.1	1102.7
-67.5°	1024.6	1039.7	1041.8	1038.5	1041.8	1039.7	1024.6	1003.6	973.5	936.4	891.8
-70°	830.7	843.5	845.2	843.3	845.2	843.5	830.7	813.9	789.0	760.1	726.2
-72.5°	689.0	698.3	705.4	711.1	705.4	698.3	689.0	676.8	655.7	633.1	608.1
-75°	590.6	597.3	599.0	599.4	599.0	597.3	590.6	581.8	564.2	545.5	525.0
-77.5°	513.5	520.2	525.0	529.1	525.0	520.2	513.5	505.7	490.7	475.3	459.2
-80°	455.6	460.7	464.6	468.1	464.6	460.7	455.6	449.7	436.4	423.1	410.4
-82.5°	412.5	417.8	421.1	424.0	421.1	417.8	412.5	406.8	395.9	384.8	373.5
-85°	371.8	375.9	378.9	381.8	378.9	375.9	371.8	367.4	357.4	347.3	337.6
-87.5°	335.6	339.5	341.4	343.3	341.4	339.5	335.6	331.7	323.0	314.4	306.1
-90°	1.4	0.9	0.9	0.9	0.9	0.9	1.4	1.9	1.9	1.9	2.4



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	276.7	271.1	265.5	261.3	257.0	251.9	246.7	238.8	230.8	222.4	213.9
87.5°	3.7	3.7	3.7	3.7	3.8	4.2	4.5	4.6	4.7	5.2	5.6
85°	4.6	4.6	4.5	4.9	5.1	5.2	5.3	5.2	5.2	5.6	6.0
82.5°	4.7	4.7	4.7	5.2	5.6	5.6	5.6	5.8	5.9	6.2	6.6
80°	4.7	5.1	5.3	5.4	5.6	5.8	5.9	6.3	6.6	6.6	6.7
77.5°	4.8	5.2	5.7	5.9	6.0	6.4	6.7	6.6	6.7	7.0	7.2
75°	5.9	6.0	6.2	6.7	7.1	7.3	7.6	7.7	7.7	7.7	7.9
72.5°	9.9	9.4	9.1	9.1	8.9	8.9	9.1	9.2	9.2	8.8	8.6
70°	14.9	14.9	15.1	15.1	14.9	14.4	13.5	12.4	11.5	11.4	10.6
67.5°	20.2	20.1	20.9	22.4	22.0	21.2	19.8	18.3	17.0	15.8	13.6
65°	24.4	24.5	24.4	24.2	24.7	25.4	25.8	24.4	24.5	22.4	17.9
62.5°	23.8	24.8	23.4	22.6	23.8	26.2	30.3	32.3	34.1	32.1	26.9
60°	18.6	20.2	19.7	20.0	21.6	27.0	34.6	40.5	45.3	42.1	36.1
57.5°	12.5	12.9	14.3	17.1	20.1	28.9	38.7	47.7	54.1	50.2	45.1
55°	13.8	15.1	15.5	17.5	19.7	31.5	42.4	51.8	58.5	56.7	51.4
52.5°	30.2	34.1	33.8	30.0	32.3	40.5	47.0	57.6	63.5	63.4	58.9
50°	105.0	109.0	97.6	81.4	82.7	68.9	76.9	78.9	76.7	77.4	70.7
47.5°	287.1	267.0	240.9	220.8	196.6	169.3	169.0	137.9	133.8	108.0	103.4
45°	564.6	506.3	457.9	418.0	376.5	348.0	320.7	304.2	241.0	217.0	156.1
42.5°	1453.9	1009.2	760.5	653.0	562.6	520.9	490.9	470.7	442.2	367.4	307.9
40°	2904.1	2255.6	1665.3	1045.3	790.7	676.1	632.6	585.1	580.3	541.6	463.4
37.5°	4332.4	3664.6	2924.7	2153.9	1433.3	911.5	807.6	736.5	684.0	669.7	613.3
35°	5656.5	4964.6	4279.2	3459.8	2522.9	1752.0	1062.7	936.6	835.6	776.3	742.5
32.5°	7139.6	6412.6	5547.8	4746.9	3907.1	2915.4	2014.5	1248.1	1024.8	922.2	842.8
30°	9507.9	8294.0	7130.3	6103.3	5263.3	4364.1	3233.4	2086.6	1321.4	1073.3	949.0
27.5°	13234.5	10913.5	9364.8	8008.9	6888.5	5940.4	4798.4	3272.4	1821.1	1309.9	1087.7
25°	18335.1	15727.4	13080.8	11140.5	9514.8	7894.2	6684.8	4838.7	2978.8	1591.3	1242.6
22.5°	24398.4	21174.3	18189.4	15029.5	12575.3	10435.3	8452.8	6422.4	4187.1	2236.4	1505.9
20°	29771.7	26019.7	22638.4	19135.9	15597.8	12528.1	9945.3	7820.0	5487.9	3257.0	1761.6
17.5°	36439.1	31217.1	27027.0	23256.3	19050.7	15229.7	11958.7	9313.3	6702.8	4108.9	1971.3
15°	43805.2	37090.4	31475.7	26705.2	22298.7	17978.1	14158.6	10909.9	8059.3	5009.8	2589.9
12.5°	51718.3	43564.8	36036.8	30086.6	24847.1	20129.0	15654.1	12297.9	9318.9	6093.0	3271.3
10°	57040.3	48613.3	40520.9	33683.8	27589.2	21897.1	16932.7	13154.6	10137.4	7041.3	3938.4
7.5°	62597.1	52623.7	43834.2	36322.4	29976.7	24030.7	18197.2	13816.5	10767.0	7749.3	4456.6
5°	65923.3	55403.6	46260.9	38394.4	31691.2	25745.7	19693.6	14406.0	11287.2	8280.5	4852.8
2.5°	68544.7	57127.3	47581.6	39496.8	32862.5	26774.4	20930.9	14985.9	11567.1	8530.1	4963.0
0°	70826.1	58369.3	48629.2	40341.3	33599.3	27433.3	21560.9	15550.6	11651.9	8591.9	4943.7
-2.5°	70729.4	57959.2	48026.0	39925.7	33276.2	27223.8	21637.7	16276.6	12245.8	8644.1	4951.0
-5°	70801.9	57979.7	47633.0	39642.2	32988.6	26947.9	21414.0	16488.9	12558.5	8573.5	4838.5
-7.5°	68907.6	56948.6	46913.8	39048.8	32493.1	26441.1	20874.7	16221.9	12572.7	8577.4	4655.4
-10°	65178.4	54483.2	45205.4	37788.2	31512.6	25554.0	20084.6	15782.2	12232.3	8236.9	4341.1
-12.5°	61071.0	51537.5	42893.6	35890.8	29957.7	24261.7	19085.4	15153.6	11612.8	7598.2	4033.5
-15°	55664.8	48092.0	40888.3	33964.9	28000.0	22668.1	17938.2	14363.0	10826.7	6769.0	3555.7
-17.5°	50354.8	43864.7	37605.5	31709.9	25898.2	20923.4	16849.7	13322.2	9708.3	5821.9	2929.0
-20°	45174.5	39599.8	34176.3	28698.0	23534.1	18950.3	15481.7	12058.3	8309.9	4893.7	2827.2



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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°	40114.4	35649.5	30822.6	25563.1	21066.9	17242.6	13869.3	10493.8	6712.6	3802.3	2691.8
-25°	35089.1	31383.5	27007.5	22969.4	18870.6	15356.1	12112.8	8557.3	5345.8	3161.4	2511.1
-27.5°	30053.8	26598.8	23456.8	20124.5	16844.1	13379.8	9955.8	6539.6	3827.3	2870.5	2411.0
-30°	25158.6	22513.4	19892.9	17251.1	14437.1	11160.0	7525.8	4798.3	3170.2	2595.2	2281.4
-32.5°	20906.1	18849.1	16683.2	14371.1	11613.5	8584.4	5552.7	3461.4	2793.4	2441.1	2202.0
-35°	17229.9	15364.7	13542.7	11134.6	8331.2	5816.6	3673.8	2990.8	2563.6	2292.4	2130.9
-37.5°	13805.8	11945.8	9850.5	7620.2	5344.2	3662.0	3091.8	2673.1	2368.9	2198.7	2036.0
-40°	9993.3	8077.0	6233.8	4358.1	3531.2	3052.6	2727.3	2453.9	2271.5	2094.1	1933.3
-42.5°	6072.2	4499.1	3596.4	3275.4	2949.7	2711.3	2488.1	2332.4	2164.7	1995.1	1779.6
-45°	3458.1	3184.8	2940.2	2802.9	2625.8	2489.4	2364.2	2208.4	2053.3	1833.7	1604.9
-47.5°	2822.2	2708.6	2601.1	2534.4	2451.0	2349.1	2215.5	2067.2	1855.1	1638.8	1447.0
-50°	2503.3	2462.4	2420.9	2372.9	2289.3	2187.5	2025.4	1836.9	1644.5	1467.3	1289.9
-52.5°	2349.0	2297.6	2245.9	2192.9	2084.1	1940.2	1779.7	1614.2	1447.4	1292.6	1137.1
-55°	2163.0	2082.9	1999.7	1908.2	1806.8	1682.2	1548.2	1400.2	1258.6	1117.2	998.7
-57.5°	1857.8	1775.9	1705.8	1626.6	1538.8	1436.6	1328.4	1200.7	1080.9	971.5	868.5
-60°	1562.9	1487.2	1429.7	1365.3	1294.0	1208.9	1123.0	1024.3	918.4	831.0	746.8
-62.5°	1291.4	1227.7	1179.6	1131.1	1077.2	1014.3	939.2	863.8	779.4	699.8	640.8
-65°	1052.7	1003.4	962.5	927.3	887.3	843.0	780.3	722.9	661.7	601.3	549.5
-67.5°	851.8	814.6	782.0	752.9	728.2	700.3	657.8	611.1	566.4	524.9	489.9
-70°	696.1	670.9	648.3	627.0	608.6	591.7	565.2	533.5	498.0	463.4	433.8
-72.5°	585.6	568.6	553.2	540.4	526.2	512.2	492.0	465.6	437.2	407.7	383.1
-75°	506.0	492.5	479.4	468.3	455.9	442.9	428.4	409.3	389.6	369.2	350.0
-77.5°	444.0	432.8	422.0	413.9	405.6	396.9	385.7	369.4	354.1	338.3	323.2
-80°	397.9	388.3	379.1	373.5	367.5	360.2	351.5	338.8	326.1	312.4	299.1
-82.5°	362.3	353.8	345.5	340.1	334.4	327.4	319.8	309.1	298.2	286.3	274.6
-85°	328.0	321.3	314.5	309.1	303.6	297.0	290.1	280.8	271.4	260.7	249.9
-87.5°	297.8	291.8	285.9	281.6	277.3	270.8	264.3	256.2	247.9	238.5	229.1
-90°	2.8	2.8	2.8	3.3	3.8	3.8	3.8	4.3	4.7	5.2	5.6



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	205.9	197.9	190.4	182.9	176.8	170.7	164.2	157.6	146.8	136.0	121.0
87.5°	5.9	6.2	6.7	7.1	7.1	7.1	7.5	7.9	8.0	8.2	8.5
85°	6.5	6.9	7.2	7.5	7.6	7.5	7.9	8.3	8.6	8.8	9.1
82.5°	7.1	7.4	7.4	7.6	8.1	8.5	8.5	8.7	9.1	9.5	9.7
80°	7.1	7.5	7.7	7.9	8.7	9.4	9.2	9.2	9.8	10.1	10.3
77.5°	7.5	7.8	8.1	8.4	8.9	9.5	9.6	9.7	10.4	10.8	10.9
75°	8.2	8.3	8.3	8.7	9.2	9.5	9.8	10.1	10.9	11.4	11.4
72.5°	8.9	8.9	8.6	8.9	9.6	10.1	10.4	10.6	11.3	11.9	12.0
70°	10.0	9.6	9.2	9.6	10.2	10.8	11.2	11.5	11.7	12.4	12.7
67.5°	11.3	10.7	10.1	10.4	10.9	11.7	12.1	12.5	12.8	13.0	13.5
65°	15.5	13.6	11.3	11.8	12.0	12.8	13.5	13.9	13.9	14.3	14.3
62.5°	21.7	18.3	16.3	14.4	14.2	15.3	15.1	16.2	15.4	15.7	15.5
60°	29.7	24.5	22.0	20.0	18.7	18.6	19.2	18.8	18.6	17.1	17.0
57.5°	37.2	30.2	29.4	26.6	25.8	24.4	24.5	24.0	22.5	21.1	18.5
55°	44.0	37.9	38.0	36.0	35.1	32.4	32.1	30.9	28.0	26.2	20.5
52.5°	51.0	48.7	48.1	48.7	48.1	43.1	42.6	38.6	36.4	31.8	25.8
50°	61.8	63.9	61.6	65.3	63.3	60.2	54.2	49.9	45.4	38.7	31.6
47.5°	89.8	91.3	84.3	87.1	83.8	79.4	71.3	62.6	54.9	47.4	37.5
45°	156.0	134.2	125.8	117.7	110.4	104.4	91.6	75.9	67.1	56.3	43.4
42.5°	246.9	217.1	193.6	153.1	150.2	133.6	114.3	96.1	79.8	65.6	50.7
40°	389.3	333.9	282.7	237.8	199.7	165.9	144.5	118.5	92.9	75.8	59.0
37.5°	540.8	470.6	403.4	334.4	265.2	218.1	177.9	142.2	108.7	87.7	67.4
35°	675.8	613.3	520.4	440.2	360.7	272.8	213.8	169.5	130.1	100.0	75.9
32.5°	791.7	731.9	630.7	541.6	438.2	328.9	258.9	200.7	151.9	112.6	84.9
30°	884.8	816.7	731.9	622.1	502.7	392.2	306.1	231.2	174.1	125.4	94.4
27.5°	975.7	898.5	821.1	695.9	562.8	446.5	345.3	261.2	196.4	139.7	104.8
25°	1084.5	984.0	898.8	776.1	621.7	490.4	380.5	290.5	220.5	156.3	114.7
22.5°	1220.2	1068.0	977.6	860.5	688.9	533.7	414.9	321.5	241.2	172.0	124.2
20°	1338.7	1142.4	1053.0	938.9	761.9	589.0	450.4	347.5	260.8	186.7	133.3
17.5°	1463.7	1220.5	1101.4	994.7	832.9	644.8	487.6	371.9	279.3	200.4	141.9
15°	1631.7	1304.7	1145.7	1042.8	893.7	698.3	524.0	395.2	296.4	213.1	150.3
12.5°	1769.6	1383.2	1189.4	1080.6	940.8	746.9	558.8	416.9	312.2	225.9	158.5
10°	1902.5	1467.0	1236.9	1116.2	980.4	790.5	591.6	440.0	330.9	238.5	166.2
7.5°	2048.8	1545.9	1282.7	1150.3	1013.9	826.7	625.3	467.5	348.9	250.3	173.4
5°	2167.1	1616.0	1330.0	1188.4	1046.1	854.6	655.8	493.4	365.7	260.9	180.0
2.5°	2201.1	1674.6	1376.0	1224.2	1073.5	876.5	682.5	517.2	380.8	270.4	186.0
0°	2210.1	1722.3	1417.4	1256.1	1095.7	893.1	705.4	538.5	394.0	278.6	191.4
-2.5°	2256.9	1760.8	1454.5	1301.9	1135.3	914.4	718.4	549.5	405.2	288.1	199.2
-5°	2282.9	1787.8	1487.4	1342.5	1167.9	930.5	727.5	557.6	414.2	296.2	206.2
-7.5°	2297.6	1807.4	1517.2	1376.2	1191.8	940.5	732.6	562.9	421.1	302.8	212.5
-10°	2290.5	1816.8	1542.8	1395.2	1203.1	950.1	735.3	565.4	425.7	307.9	218.0
-12.5°	2301.0	1819.0	1563.2	1409.2	1207.0	959.0	744.2	569.3	428.1	311.3	222.6
-15°	2301.3	1841.2	1596.2	1420.8	1204.8	961.3	747.6	571.4	428.8	313.2	226.3
-17.5°	2249.1	1843.0	1626.7	1437.5	1197.9	956.9	745.3	569.0	427.0	313.6	229.4
-20°	2233.8	1858.3	1644.1	1445.8	1183.0	947.0	737.1	562.0	422.6	312.4	232.1



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2212.9	1891.7	1664.0	1427.5	1161.5	931.6	725.4	550.7	415.6	309.6	234.0
-25°	2148.0	1913.1	1673.2	1406.5	1138.5	914.6	711.3	540.9	405.9	305.2	235.0
-27.5°	2109.8	1902.9	1667.7	1371.6	1114.0	890.5	696.6	533.6	399.4	299.2	235.1
-30°	2086.5	1871.5	1618.3	1326.4	1078.0	861.5	678.0	522.4	394.3	296.7	234.5
-32.5°	2032.6	1833.9	1543.8	1275.0	1037.8	827.5	655.2	506.8	386.4	296.4	233.9
-35°	1951.7	1739.4	1455.5	1210.1	993.2	797.6	629.5	486.9	375.8	294.8	233.0
-37.5°	1857.4	1606.8	1375.0	1141.3	935.7	760.5	603.2	468.8	362.4	291.6	231.6
-40°	1709.7	1477.2	1266.9	1068.7	878.6	714.5	572.5	451.4	354.4	287.0	229.2
-42.5°	1555.5	1349.3	1160.2	982.3	817.4	670.9	539.0	430.9	347.7	282.5	225.8
-45°	1408.6	1220.5	1052.3	899.2	752.3	623.6	511.9	409.4	339.1	277.5	222.6
-47.5°	1261.0	1100.4	950.3	811.7	695.3	576.6	479.1	397.4	328.7	271.3	219.9
-50°	1126.2	983.0	851.0	733.5	628.4	537.1	447.8	383.2	319.3	263.4	216.5
-52.5°	998.1	871.2	758.1	655.3	572.5	494.7	426.4	366.2	308.2	256.7	212.3
-55°	877.2	767.0	668.9	588.1	517.9	462.1	403.0	348.9	295.4	250.1	207.7
-57.5°	767.4	667.3	595.2	527.8	473.9	429.0	380.0	330.1	285.4	242.6	205.4
-60°	662.3	592.6	528.8	479.6	436.1	396.9	356.7	312.2	275.4	235.1	202.1
-62.5°	579.2	522.3	479.2	437.4	399.8	366.2	333.4	297.9	264.0	230.3	198.1
-65°	511.0	471.3	431.9	398.2	365.1	337.3	314.8	282.7	255.1	224.8	193.5
-67.5°	455.3	422.5	390.0	359.5	336.3	315.9	294.8	271.0	246.7	218.8	188.0
-70°	405.1	375.9	352.4	332.4	313.2	295.1	280.1	260.3	237.7	211.4	181.9
-72.5°	363.9	344.6	325.0	307.0	293.6	280.0	266.2	249.0	227.5	203.4	175.4
-75°	332.7	317.6	302.9	289.4	277.2	264.8	252.1	237.1	216.9	194.9	167.7
-77.5°	309.9	296.7	283.8	271.4	260.2	248.8	237.6	224.8	205.4	184.8	159.4
-80°	287.2	275.4	263.9	252.7	242.7	232.6	222.1	210.4	192.4	174.1	150.6
-82.5°	264.2	253.7	243.4	233.1	223.8	214.3	205.0	195.0	179.0	162.9	142.4
-85°	240.6	231.2	221.9	212.4	204.2	195.9	188.6	181.0	167.6	154.1	135.5
-87.5°	221.1	212.9	204.9	196.8	190.1	183.3	176.4	169.4	157.3	145.2	128.4
-90°	5.6	5.6	6.1	6.6	6.6	6.6	7.1	7.5	7.5	7.5	8.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	106.0	87.7	69.4	49.7	30.0	20.1	10.3
87.5°	8.9	8.8	8.7	8.7	8.7	9.6	10.3
85°	9.4	9.2	9.1	9.0	8.9	9.8	10.3
82.5°	9.9	9.6	9.4	9.3	9.2	10.0	10.3
80°	10.4	10.0	9.7	9.7	9.5	10.2	10.3
77.5°	10.9	10.5	10.1	10.0	9.7	10.4	10.3
75°	11.4	11.2	10.5	10.3	10.0	10.6	10.3
72.5°	12.0	11.8	11.2	10.6	10.3	10.8	10.3
70°	12.6	12.5	11.8	11.0	10.6	11.1	10.3
67.5°	13.4	13.2	12.5	11.5	11.0	11.3	10.3
65°	14.3	13.9	13.2	12.1	11.3	11.5	10.3
62.5°	15.1	14.7	13.9	12.6	11.7	11.7	10.3
60°	16.0	15.5	14.5	13.2	12.0	12.0	10.3
57.5°	17.8	16.3	15.5	13.7	12.6	12.2	10.3
55°	19.9	17.1	16.5	14.2	13.3	12.4	10.3
52.5°	22.1	18.2	17.6	14.8	14.0	12.7	10.3
50°	24.5	20.8	18.8	15.3	14.7	12.9	10.3
47.5°	27.5	23.5	20.0	15.9	15.4	13.1	10.3
45°	32.7	26.4	21.4	17.0	16.2	13.4	10.3
42.5°	37.9	29.4	22.8	18.0	17.0	13.6	10.3
40°	43.4	32.5	24.8	19.6	17.9	13.8	10.3
37.5°	49.4	35.8	27.2	21.5	18.8	14.1	10.3
35°	55.4	40.1	29.7	23.4	19.7	14.3	10.3
32.5°	61.9	44.9	32.3	25.4	20.6	14.5	10.3
30°	69.4	49.7	34.8	27.4	21.6	14.7	10.3
27.5°	76.8	54.3	38.2	29.4	22.6	15.0	10.3
25°	84.0	58.9	41.7	31.5	23.6	15.2	10.3
22.5°	91.0	63.7	45.1	33.5	24.6	15.4	10.3
20°	97.8	68.8	48.5	35.6	25.6	15.6	10.3
17.5°	104.5	73.7	51.7	37.6	26.5	15.8	10.3
15°	111.0	78.3	54.9	39.6	27.5	16.0	10.3
12.5°	117.2	82.8	57.9	41.6	28.5	16.1	10.3
10°	123.0	87.0	60.9	43.6	29.4	16.3	10.3
7.5°	128.3	91.0	63.7	45.5	30.3	16.5	10.3
5°	133.2	94.7	66.4	47.3	31.2	16.6	10.3
2.5°	137.7	98.1	68.9	49.0	32.0	16.8	10.3
0°	141.7	101.3	71.3	50.7	32.8	16.9	10.3
-2.5°	147.7	105.9	74.6	52.9	34.2	17.5	10.3
-5°	153.3	110.3	77.8	55.1	35.6	18.2	10.3
-7.5°	158.3	114.2	80.7	57.1	36.8	18.8	10.3
-10°	162.7	117.9	83.5	58.9	38.0	19.4	10.3
-12.5°	166.6	121.1	86.0	60.7	39.2	20.0	10.3
-15°	169.9	123.9	88.3	62.3	40.2	20.5	10.3
-17.5°	172.5	126.4	90.4	63.8	41.2	21.0	10.3
-20°	174.9	128.3	92.2	65.2	42.0	21.5	10.3



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 CATALOG NUMBER: EPH-LS-08-0530N-57-80-5S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	177.3	129.9	93.8	66.4	42.8	22.0	10.3
-25°	179.0	131.7	95.1	67.4	43.5	22.4	10.3
-27.5°	180.0	133.4	96.1	68.3	44.1	22.8	10.3
-30°	180.4	134.7	97.0	69.1	44.6	23.2	10.3
-32.5°	180.0	135.6	98.6	69.6	45.0	23.5	10.3
-35°	180.1	136.0	100.0	70.1	45.3	23.8	10.3
-37.5°	180.0	136.4	101.1	70.3	45.5	24.0	10.3
-40°	179.5	137.4	101.9	70.4	45.7	24.2	10.3
-42.5°	178.5	138.1	102.7	70.6	45.7	24.4	10.3
-45°	176.9	138.5	103.2	71.0	45.6	24.5	10.3
-47.5°	174.8	138.5	103.4	71.2	45.4	24.6	10.3
-50°	174.0	138.1	103.2	71.2	45.1	24.6	10.3
-52.5°	173.0	137.4	102.8	71.1	44.7	24.6	10.3
-55°	171.6	136.2	101.9	70.8	44.2	24.6	10.3
-57.5°	169.7	134.5	100.8	70.2	43.6	24.5	10.3
-60°	167.3	132.5	99.3	69.5	42.9	24.4	10.3
-62.5°	164.2	130.0	97.9	68.6	42.3	24.2	10.3
-65°	160.6	127.2	96.2	67.5	41.6	24.0	10.3
-67.5°	156.5	124.2	94.3	66.2	40.8	23.7	10.3
-70°	152.1	120.8	92.1	64.7	39.9	23.5	10.3
-72.5°	146.7	117.1	89.6	63.3	39.0	23.2	10.3
-75°	140.8	113.0	87.0	61.8	37.9	22.8	10.3
-77.5°	134.5	108.5	84.4	60.1	36.7	22.4	10.3
-80°	127.7	104.4	81.8	58.3	35.5	22.0	10.3
-82.5°	122.5	100.6	78.9	56.3	34.2	21.6	10.3
-85°	117.2	96.5	75.9	54.2	32.9	21.1	10.3
-87.5°	111.7	92.2	72.7	52.0	31.5	20.7	10.3
-90°	8.4	8.4	8.4	8.4	8.4	9.4	10.3

(END OF 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

