

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: P731601 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-2S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731601 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-40-70-2S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 2S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

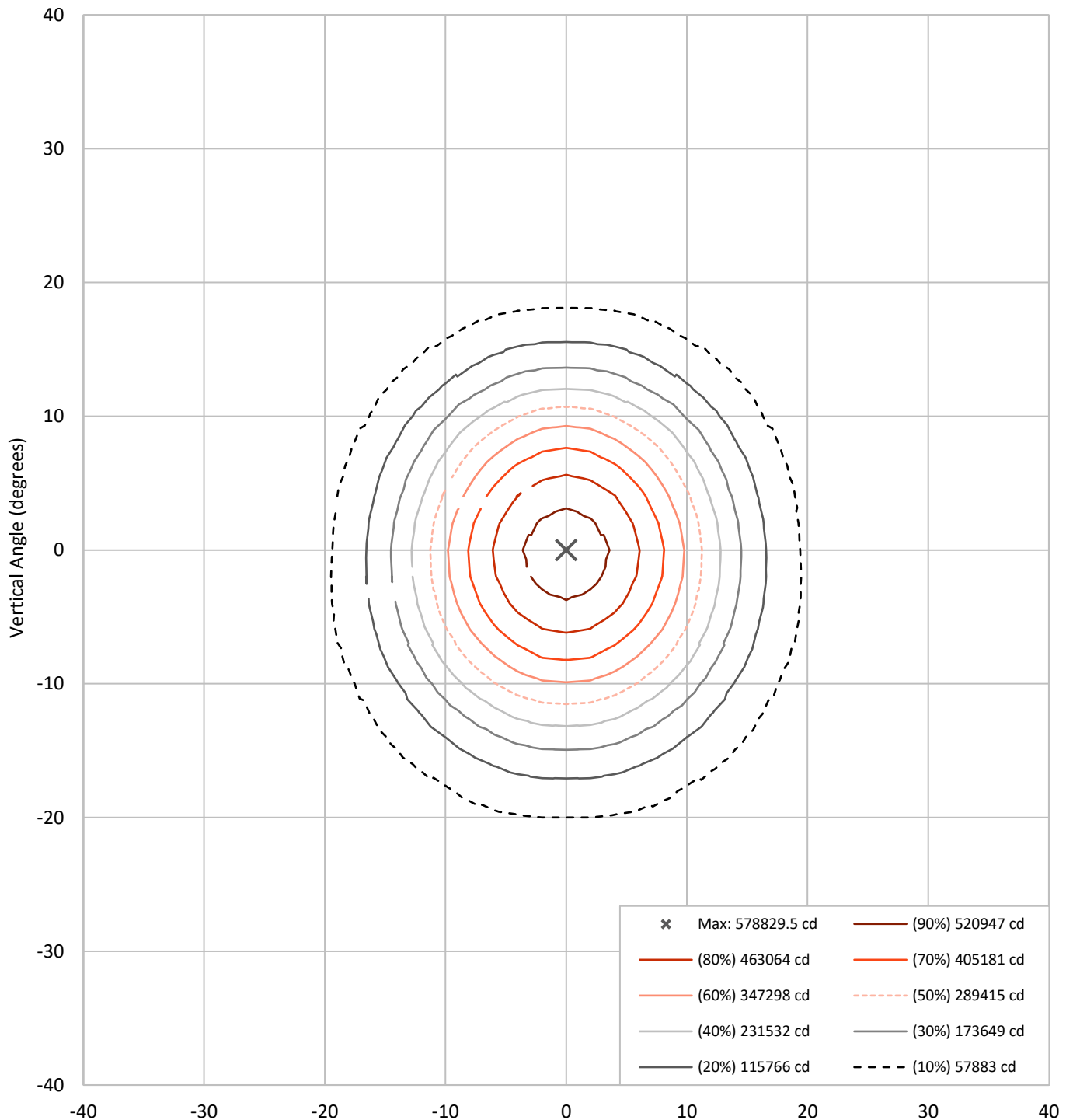
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	101170.8 lumens	Max Intensity:	578829.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	143.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22.5°H x 22.2°V	Field Angle (10%):	38.8°H x 38.1°V
Beam Lumens:	47275.4 lumens	Field Lumens:	84220.2 lumens
Beam Efficiency:	46.7%	Field Efficiency:	83.2%

Input Watts (W): 703.3
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





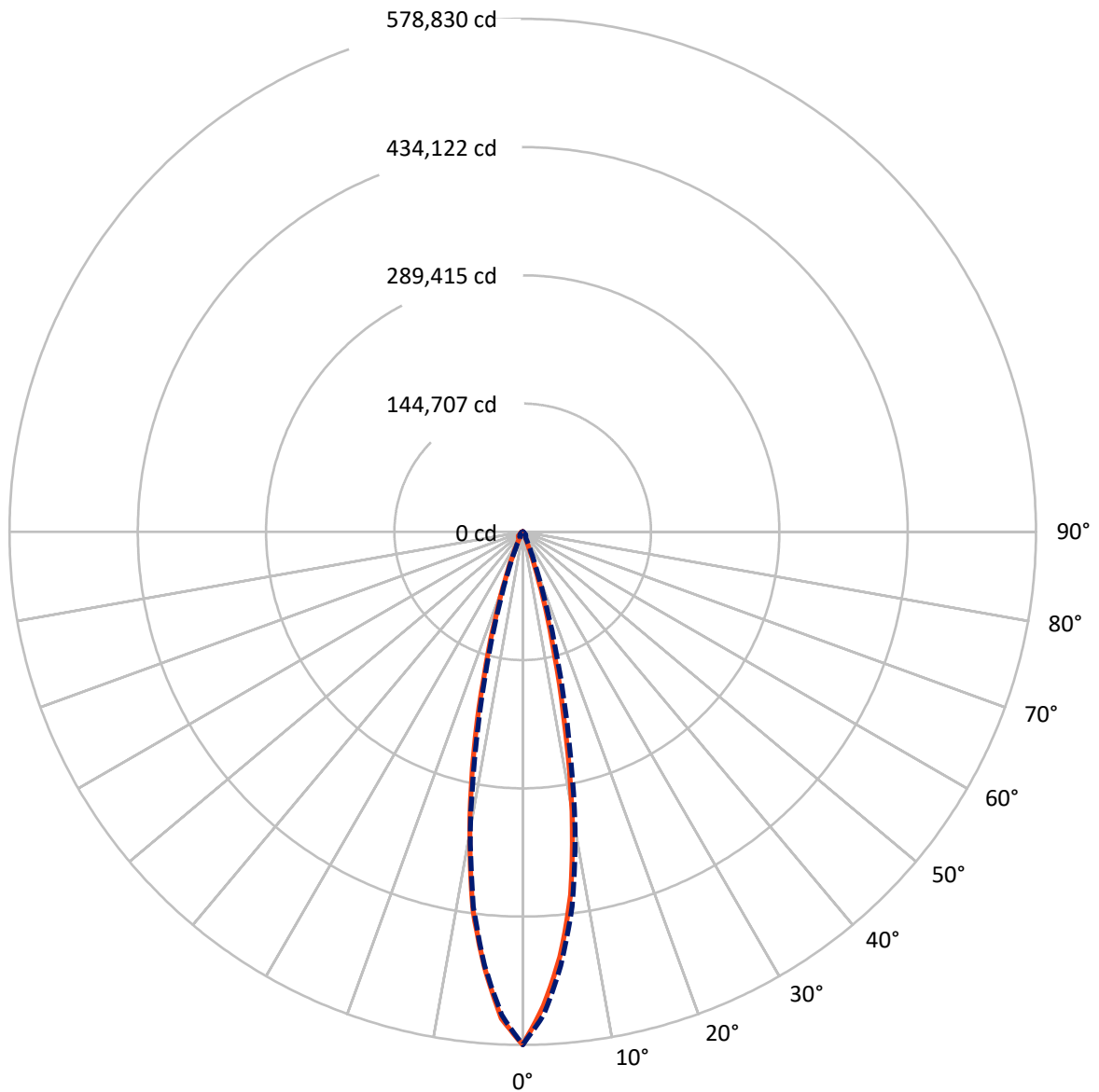
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Lumen Table

90	0.2	0.8	1.5	2.2	2.6	2.2	1.5	0.8	0.2										
80	0.2	0.8	1.5	2.2	2.6	2.2	1.5	0.8	0.2										
70	0.3	0.1	0.2	0.7	1.0	0.9	0.8	0.9	0.9	0.8	0.9	1.0	0.7	0.2	0.1	0.3			
60		0.4	0.8	1.2	1.0	0.9	1.0	1.2	1.2	1.0	0.9	1.0	1.2	0.8	0.4				
50	0.8	1.2	3.0	6.0	10.6	17.4	26.7	31.5	31.5	26.7	17.4	10.6	6.0	3.0	1.2	0.8			
40		3.1	10.0	19.2	37.7	65.6	79.7	88.3	88.3	79.7	65.6	37.7	19.2	10.0	3.1				
30	2.0	5.4	16.5	35.2	86.0	100.0	137.9	252.0	252.0	137.9	100.0	86.0	35.2	16.5	5.4	2.0			
20		7.2	21.5	61.6	121.2	178.1	1129.7	3643.6	3643.6	1129.7	178.1	121.2	61.6	21.5	7.2				
10	2.9	8.7	24.8	80.5	138.8	398.2	4002.1	12030.8	12030.8	4002.1	398.2	138.8	80.5	24.8	8.7	2.9			
0		9.6	27.3	85.0	152.7	456.6	4358.5	12511.6	12511.6	4358.5	456.6	152.7	85.0	27.3	9.6				
-10	3.2	9.7	28.5	81.9	160.7	261.3	1597.3	4679.5	4679.5	1597.3	261.3	160.7	81.9	28.5	9.7	3.2			
-20		8.9	28.0	62.6	151.6	207.8	288.7	577.4	577.4	288.7	207.8	151.6	62.6	28.0	8.9				
-30	2.6	7.6	24.5	49.0	106.0	186.6	218.6	229.2	229.2	218.6	186.6	106.0	49.0	24.5	7.6	2.6			
-40		5.8	18.6	39.6	63.2	97.1	147.8	185.5	185.5	147.8	97.1	63.2	39.6	18.6	5.8				
-50	2.1	3.8	11.8	26.0	44.2	59.9	71.4	78.9	78.9	71.4	59.9	44.2	26.0	11.8	3.8	2.1			
-60		2.6	6.0	13.0	22.6	31.7	39.9	44.9	44.9	39.9	31.7	22.6	13.0	6.0	2.6				
-70	1.5	9.3	22.5	37.5	45.9	37.5	22.5	9.3	1.5							1.5			
-80		9.3	22.5	37.5	45.9	37.5	22.5	9.3	1.5										
-90	1.5	9.3	22.5	37.5	45.9	37.5	22.5	9.3	1.5										

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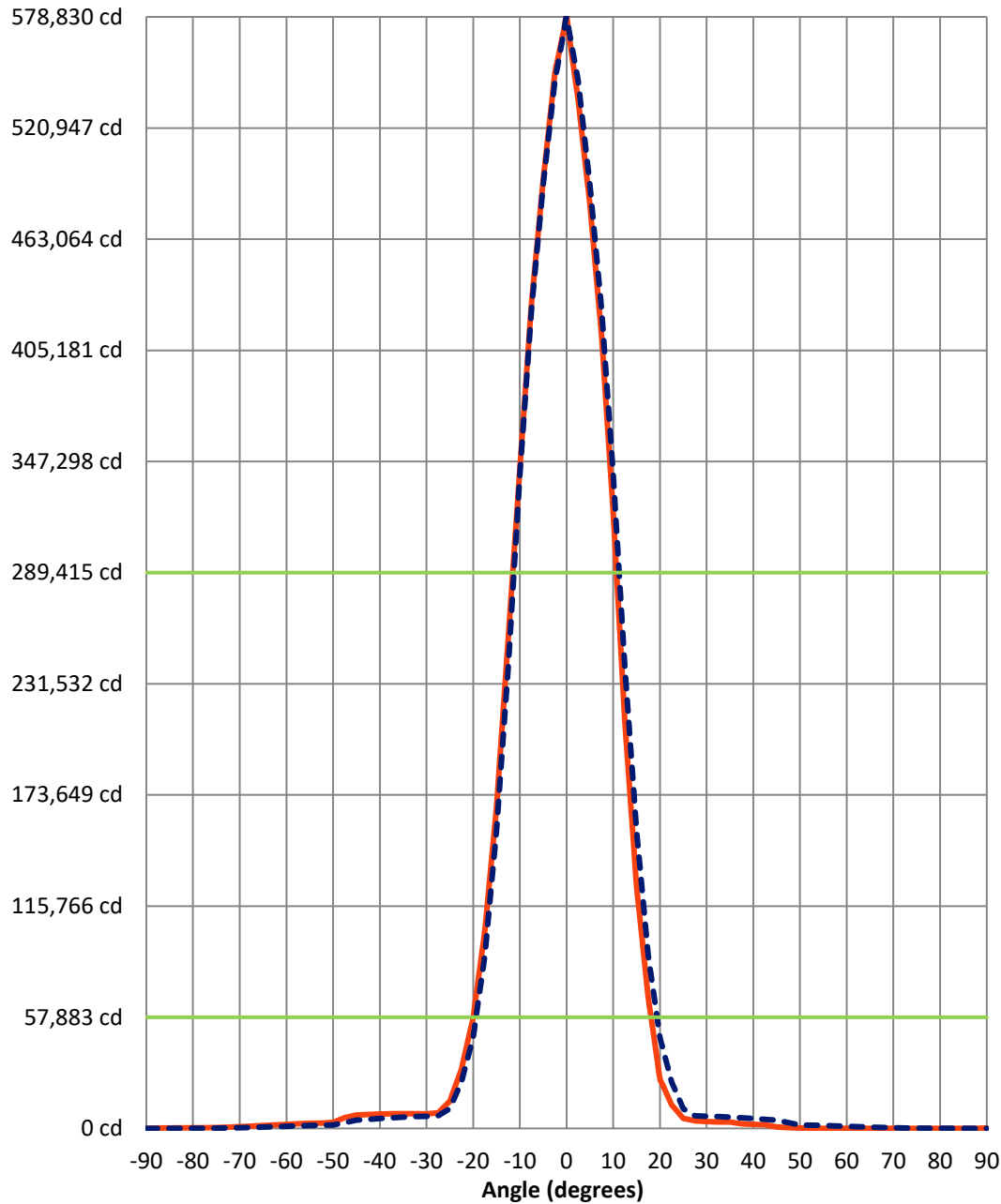
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 22.5°
 V Angle: 22.2°
 Lumens: 47275.4
 Efficiency: 46.7%

Field:
 H Angle: 38.8°
 V Angle: 38.1°
 Lumens: 84220.2
 Efficiency: 83.2%

Spill:
 Lumens: 16950.6
 Efficiency: 16.8%

— 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°	5.9	12.4	18.9	32.5	46.1	57.9	69.7	78.6	87.4	94.5	101.6
87.5°	5.9	6.1	6.1	6.1	6.1	6.2	6.2	6.1	5.9	5.9	5.9
85°	5.9	6.2	6.3	6.4	6.3	6.4	6.5	6.3	5.9	5.9	5.9
82.5°	5.9	6.4	6.5	6.6	6.5	6.7	6.8	6.5	6.0	6.2	6.2
80°	5.9	6.5	6.7	6.8	6.8	6.9	7.1	6.9	6.8	6.9	6.8
77.5°	5.9	6.7	7.0	7.1	7.0	7.2	7.5	7.4	7.6	7.6	7.3
75°	5.9	6.8	7.2	7.3	7.3	7.6	7.8	7.9	8.3	8.2	7.9
72.5°	5.9	7.0	7.4	7.6	7.7	8.1	8.2	8.4	8.8	8.7	8.5
70°	5.9	7.1	7.6	7.9	8.1	8.5	8.6	9.0	9.3	9.2	9.1
67.5°	5.9	7.3	7.9	8.2	8.5	8.9	9.3	9.6	9.8	10.0	9.8
65°	5.9	7.4	8.1	8.5	8.9	9.5	10.0	10.2	11.0	10.9	10.9
62.5°	5.9	7.6	8.4	8.8	9.4	10.2	10.7	11.5	12.4	12.1	12.7
60°	5.9	7.8	8.6	9.1	9.8	10.9	11.5	13.2	13.9	14.6	14.8
57.5°	5.9	7.9	8.9	9.4	10.5	11.6	13.4	15.0	16.8	17.6	19.8
55°	5.9	8.1	9.3	9.7	11.4	12.4	15.6	17.2	20.2	21.9	26.5
52.5°	5.9	8.2	9.6	10.0	12.3	13.4	17.9	20.9	24.0	30.1	33.9
50°	5.9	8.4	10.0	10.3	13.2	15.9	20.5	24.9	29.4	39.1	48.6
47.5°	5.9	8.5	10.5	10.7	14.2	18.4	23.3	29.1	38.5	48.8	66.0
45°	5.9	8.6	10.9	11.5	15.3	21.1	27.0	33.4	48.5	66.3	85.0
42.5°	5.9	8.8	11.4	12.3	16.4	23.9	30.9	40.8	59.2	85.1	115.6
40°	5.9	8.9	11.9	13.5	18.1	26.7	35.0	50.5	72.9	105.2	150.3
37.5°	5.9	9.1	12.5	14.9	20.3	29.6	39.4	60.6	92.5	131.1	187.5
35°	5.9	9.2	13.0	16.3	22.5	33.0	43.9	71.0	113.0	165.9	229.1
32.5°	5.9	9.3	13.6	17.9	24.8	36.6	49.8	81.8	134.4	201.1	273.3
30°	5.9	9.5	14.2	19.4	27.0	40.2	58.6	94.2	156.6	236.8	315.4
27.5°	5.9	9.6	14.8	21.0	29.8	43.8	67.2	110.6	179.4	272.7	355.2
25°	5.9	9.7	15.4	22.6	32.7	47.4	75.8	126.1	203.4	306.8	393.1
22.5°	5.9	9.8	16.1	24.2	35.5	51.0	84.1	140.7	225.4	329.8	434.1
20°	5.9	9.9	16.7	25.8	38.1	54.8	92.2	154.3	245.6	351.2	466.0
17.5°	5.9	10.1	17.3	27.4	40.7	58.5	99.6	166.9	263.8	370.8	496.2
15°	5.9	10.2	17.9	29.1	43.2	62.0	106.2	178.1	280.1	388.7	525.2
12.5°	5.9	10.2	18.6	30.6	45.5	65.3	112.3	187.6	295.4	404.6	552.6
10°	5.9	10.3	19.2	32.2	47.8	68.5	117.7	196.0	310.0	424.4	581.0
7.5°	5.9	10.4	19.7	33.7	49.9	71.5	122.6	203.3	323.2	443.6	613.2
5°	5.9	10.5	20.3	35.1	51.9	74.2	126.9	209.5	334.6	461.1	642.9
2.5°	5.9	10.5	20.8	36.5	53.8	76.8	130.5	214.6	344.3	476.8	669.4
0°	5.9	10.6	21.3	37.8	55.5	79.1	133.5	218.5	352.0	490.2	692.3
-2.5°	5.9	11.1	22.4	39.5	57.9	82.4	137.8	226.5	362.7	504.4	704.3
-5°	5.9	11.5	23.5	41.0	60.2	85.5	141.4	233.1	371.3	515.9	712.4
-7.5°	5.9	11.9	24.5	42.5	62.4	88.3	144.3	238.3	377.4	524.6	716.7
-10°	5.9	12.4	25.5	43.9	64.3	90.8	146.5	241.9	381.1	530.5	717.4
-12.5°	5.9	12.8	26.4	45.1	66.1	93.0	148.0	243.7	382.3	532.8	716.6
-15°	5.9	13.2	27.2	46.3	67.7	95.0	148.7	243.7	379.5	528.5	711.6
-17.5°	5.9	13.5	28.0	47.3	69.2	96.6	148.7	241.2	372.5	521.1	701.1
-20°	5.9	13.9	28.7	48.2	70.4	98.0	148.1	236.7	363.1	510.6	684.6



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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°	5.9	14.2	29.4	49.0	71.4	99.0	146.9	230.5	351.4	496.7	662.8
-25°	5.9	14.5	29.9	49.7	72.2	99.8	144.9	222.8	337.3	479.7	641.4
-27.5°	5.9	14.8	30.4	50.3	72.9	100.5	142.1	213.5	320.9	465.7	626.3
-30°	5.9	15.0	30.8	50.7	73.3	100.8	138.3	202.7	307.7	450.0	607.6
-32.5°	5.9	15.2	31.1	51.1	73.8	100.8	133.6	195.9	296.7	430.8	584.7
-35°	5.9	15.4	31.4	51.3	74.2	100.5	131.8	190.1	282.9	408.2	557.7
-37.5°	5.9	15.6	31.5	51.4	74.4	100.1	131.0	183.4	266.4	382.2	528.4
-40°	5.9	15.7	31.6	51.3	74.3	100.1	129.9	175.2	247.2	358.6	495.5
-42.5°	5.9	15.8	31.6	51.3	74.3	99.8	128.3	165.4	232.6	333.5	458.2
-45°	5.9	15.9	31.5	51.2	74.2	99.2	126.3	157.9	219.6	305.0	417.9
-47.5°	5.9	15.9	31.3	51.0	73.9	98.4	123.8	154.9	204.6	273.5	381.9
-50°	5.9	15.9	31.0	50.8	73.5	97.4	122.2	151.4	187.6	254.0	342.1
-52.5°	5.9	15.9	30.6	50.4	72.8	96.1	120.4	147.2	178.7	232.5	299.6
-55°	5.9	15.9	30.2	49.9	72.0	94.8	118.3	142.7	173.1	209.1	271.1
-57.5°	5.9	15.8	29.7	49.2	71.0	93.2	115.9	139.9	166.8	197.8	241.2
-60°	5.9	15.7	29.0	48.4	69.8	91.4	113.3	136.5	160.4	189.6	216.7
-62.5°	5.9	15.5	28.6	47.5	68.4	89.3	110.5	132.8	155.7	180.4	205.5
-65°	5.9	15.4	28.0	46.4	66.9	86.9	107.3	128.6	150.6	172.7	193.7
-67.5°	5.9	15.2	27.4	45.2	65.1	84.3	103.9	124.3	144.9	165.3	184.0
-70°	5.9	14.9	26.7	43.9	63.2	81.6	100.1	119.6	139.4	157.4	174.9
-72.5°	5.9	14.7	25.9	42.8	61.1	78.6	96.3	114.6	133.5	150.0	165.5
-75°	5.9	14.4	25.0	41.6	58.8	75.4	92.2	109.4	127.3	142.3	156.5
-77.5°	5.9	14.1	24.1	40.3	56.9	72.1	88.0	104.0	120.6	134.2	147.2
-80°	5.9	13.8	23.2	38.9	55.0	69.2	83.5	98.3	113.5	125.4	137.2
-82.5°	5.9	13.5	22.2	37.4	53.0	66.6	80.1	92.8	106.1	116.5	126.8
-85°	5.9	13.1	21.1	35.9	50.8	63.8	76.8	88.2	100.0	108.7	117.3
-87.5°	5.9	12.8	20.0	34.2	48.5	60.9	73.3	83.5	93.8	101.7	109.5
-90°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	106.9	112.2	117.0	121.7	127.0	132.3	138.2	144.1	150.0	155.9	160.7
87.5°	5.6	5.3	5.3	5.4	5.1	4.7	4.7	4.7	4.1	3.5	3.5
85°	5.9	5.9	5.9	5.9	5.4	5.1	4.9	4.7	4.4	4.1	4.2
82.5°	6.4	6.5	6.3	5.9	5.8	5.8	5.4	4.9	5.0	5.1	4.9
80°	6.9	7.1	6.7	6.3	6.2	6.0	5.7	5.7	5.8	5.9	5.5
77.5°	7.3	7.2	7.0	6.9	6.7	6.3	6.3	6.5	6.4	6.0	5.9
75°	7.7	7.3	7.3	7.2	7.0	6.9	7.1	7.1	6.9	6.7	6.5
72.5°	8.2	7.9	7.7	7.4	7.3	7.2	7.1	7.1	8.2	9.9	11.1
70°	8.8	8.6	8.4	8.1	7.9	7.9	9.3	12.0	14.9	17.2	20.3
67.5°	9.5	9.4	9.1	9.1	9.6	11.0	13.1	20.9	28.8	31.6	33.0
65°	10.6	10.4	10.4	11.1	11.7	17.7	25.5	34.7	44.5	46.3	44.5
62.5°	11.9	13.2	12.8	14.9	20.2	27.6	37.4	47.9	59.0	56.4	47.1
60°	16.3	17.1	18.9	23.5	29.7	37.9	48.9	53.4	58.0	58.9	45.7
57.5°	22.0	24.4	28.8	33.6	41.8	46.4	48.0	48.1	54.8	55.3	42.0
55°	30.6	34.7	41.5	47.1	52.3	47.3	47.3	51.6	53.9	49.8	37.3
52.5°	44.0	48.4	58.9	63.2	60.4	56.2	55.1	58.9	56.7	50.6	43.1
50°	58.9	71.5	78.5	81.9	75.3	74.5	68.4	71.9	74.1	70.8	74.0
47.5°	82.8	98.2	103.9	109.0	103.6	109.4	103.6	120.5	120.8	162.5	167.4
45°	112.0	132.7	139.5	151.4	160.6	165.9	198.8	201.0	289.4	324.0	398.5
42.5°	146.2	173.2	196.7	202.7	258.4	284.9	331.5	416.8	498.3	568.6	608.3
40°	190.0	218.9	268.0	323.0	386.2	448.5	517.9	618.0	704.2	742.0	762.0
37.5°	238.1	293.4	358.9	450.8	544.8	616.4	698.8	793.0	850.3	870.3	874.9
35°	289.6	369.4	479.0	575.6	676.3	772.4	849.4	939.3	958.6	974.5	1063.1
32.5°	352.4	445.4	574.7	683.0	785.0	895.1	973.0	1026.1	1056.8	1115.3	1404.0
30°	415.3	524.4	652.3	767.4	886.4	991.1	1065.3	1116.9	1151.9	1428.0	2027.6
27.5°	467.0	592.3	719.4	853.1	984.7	1089.6	1160.9	1207.9	1411.8	1869.5	2792.7
25°	513.9	645.6	786.6	947.9	1086.2	1183.4	1256.5	1303.0	1759.0	2693.7	3334.0
22.5°	557.9	697.3	862.6	1048.0	1187.3	1269.8	1340.0	1592.6	2283.2	3528.9	3873.2
20°	601.0	759.4	945.1	1132.8	1282.0	1343.2	1416.9	1917.3	2957.5	3850.3	4227.5
17.5°	645.5	823.0	1022.9	1198.0	1331.4	1408.5	1526.6	2232.2	3526.8	4131.7	4404.6
15°	690.1	883.0	1086.2	1255.4	1380.1	1472.6	1777.8	2683.4	3879.5	4441.0	4698.0
12.5°	733.8	935.6	1133.8	1304.6	1431.0	1533.4	2007.5	3149.8	4198.1	4744.7	5084.9
10°	775.8	981.0	1174.6	1352.2	1480.9	1592.3	2239.6	3605.9	4485.9	4942.7	5227.9
7.5°	812.5	1018.1	1209.8	1397.8	1527.5	1650.1	2494.0	3908.4	4608.3	5068.5	5300.3
5°	843.8	1047.4	1245.5	1448.6	1575.8	1703.4	2725.1	4107.8	4654.9	5146.1	5376.1
2.5°	870.2	1070.9	1276.3	1496.2	1623.4	1748.5	2887.0	4234.3	4686.5	5175.9	5450.4
0°	891.9	1089.2	1301.8	1538.1	1666.8	1788.5	3007.6	4295.3	4696.9	5164.7	5520.3
-2.5°	905.9	1115.9	1349.0	1578.5	1702.4	1822.0	3002.6	4331.1	4709.8	5224.4	5790.3
-5°	915.3	1136.7	1388.6	1612.5	1734.7	1851.6	2951.3	4304.9	4738.3	5315.1	5966.8
-7.5°	920.0	1150.7	1419.1	1640.0	1765.1	1884.6	2887.9	4244.4	4883.9	5501.6	6077.5
-10°	921.6	1158.9	1425.3	1653.2	1793.2	1917.1	2783.2	4117.1	4998.8	5579.6	6109.6
-12.5°	927.7	1162.9	1422.0	1658.6	1817.2	1946.8	2654.0	4032.8	5153.4	5627.8	6098.0
-15°	927.1	1161.4	1412.5	1657.1	1846.5	1986.6	2482.1	3833.9	5247.5	5638.6	6066.6
-17.5°	919.3	1154.7	1398.0	1651.4	1874.4	2016.4	2239.7	3424.6	4978.4	5590.9	6029.5
-20°	903.9	1140.2	1377.5	1633.6	1889.9	2044.0	2210.8	3066.2	4424.6	5464.5	5959.5



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	881.8	1119.0	1352.5	1603.6	1882.5	2075.2	2230.9	2717.6	3877.4	5277.1	5846.2
-25°	855.9	1089.4	1323.6	1587.3	1871.7	2105.0	2235.1	2393.7	3401.5	4656.6	5650.9
-27.5°	827.3	1052.8	1291.9	1552.9	1854.7	2099.6	2233.4	2383.1	2894.7	3893.3	5339.9
-30°	794.1	1011.7	1247.9	1503.0	1795.0	2043.1	2228.1	2351.9	2508.2	3294.8	4528.4
-32.5°	757.3	965.3	1195.8	1446.4	1718.1	1980.0	2197.4	2327.0	2464.1	2733.4	3727.8
-35°	721.3	920.4	1138.1	1381.2	1639.6	1894.3	2116.7	2300.7	2415.8	2567.3	3021.1
-37.5°	687.8	870.1	1074.9	1310.1	1560.0	1787.9	2028.4	2227.8	2385.4	2495.2	2678.8
-40°	649.2	813.9	1010.3	1230.4	1454.9	1671.8	1900.6	2124.8	2318.5	2463.1	2572.6
-42.5°	605.7	763.1	940.7	1136.3	1343.8	1550.2	1766.5	1988.8	2201.2	2391.9	2527.5
-45°	558.6	706.4	866.3	1043.8	1227.9	1424.7	1630.7	1841.0	2051.9	2262.1	2429.4
-47.5°	504.0	644.1	795.8	945.0	1114.9	1295.7	1487.1	1684.7	1879.9	2082.7	2275.3
-50°	447.3	576.7	715.2	853.0	1000.4	1163.9	1339.1	1523.7	1708.8	1896.1	2081.7
-52.5°	395.8	503.3	631.0	760.8	891.0	1030.8	1189.5	1357.8	1532.4	1709.1	1871.5
-55°	340.8	437.6	542.5	664.1	786.3	907.8	1036.8	1189.2	1347.3	1511.2	1656.9
-57.5°	298.5	371.4	461.9	562.4	676.1	791.1	904.2	1018.7	1160.0	1305.7	1428.2
-60°	263.5	316.1	385.3	470.3	560.8	667.1	773.4	879.8	989.1	1093.4	1206.5
-62.5°	231.3	274.2	323.0	382.3	460.9	542.9	637.4	735.3	835.4	925.3	1008.5
-65°	217.5	238.1	274.7	319.0	364.1	434.2	509.8	586.9	673.7	753.4	828.4
-67.5°	202.9	221.9	240.9	264.3	304.7	346.2	387.9	456.1	524.1	585.7	646.8
-70°	191.1	205.8	222.6	239.7	257.1	281.0	318.2	356.7	395.2	437.8	489.4
-72.5°	179.6	192.8	206.2	219.5	235.1	251.5	268.5	285.9	312.6	345.4	375.0
-75°	168.6	179.5	191.5	203.8	216.1	228.6	242.5	258.5	274.5	290.4	305.3
-77.5°	157.9	167.9	177.9	188.2	198.9	210.1	222.2	234.8	248.0	261.0	272.6
-80°	146.7	156.1	164.7	173.5	183.1	192.7	202.8	213.2	224.8	236.8	247.2
-82.5°	134.7	142.5	150.3	158.1	166.9	175.7	184.4	193.1	202.6	212.3	220.9
-85°	123.1	128.6	135.4	142.2	150.0	157.8	165.2	172.6	180.9	189.1	195.8
-87.5°	115.1	120.5	125.8	131.1	137.3	143.6	149.7	155.8	162.6	169.5	174.7
-90°	5.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.1	3.5	3.5



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	165.4	169.0	172.5	174.3	176.0	179.6	183.1	188.4	193.7	199.7	205.6
87.5°	3.5	3.5	3.5	3.4	3.4	2.9	2.4	2.4	2.4	2.4	2.4
85°	4.3	4.3	4.4	4.0	3.5	3.4	3.4	3.4	3.4	2.9	2.4
82.5°	4.7	4.7	4.7	4.5	4.4	4.0	3.5	3.5	3.5	3.5	3.5
80°	5.1	5.0	4.7	4.7	4.7	4.5	4.4	4.0	3.5	4.0	4.6
77.5°	5.9	5.5	5.2	5.0	4.8	4.4	3.9	3.7	3.5	3.6	3.6
75°	6.1	6.2	7.0	7.2	7.0	6.4	5.4	5.2	5.4	5.1	4.7
72.5°	12.1	12.6	13.0	14.2	14.8	15.4	16.7	19.0	21.7	24.2	26.6
70°	24.2	27.6	28.3	28.3	28.3	29.1	30.4	31.8	33.7	35.2	36.6
67.5°	37.2	40.2	40.5	41.2	40.1	38.4	36.8	36.8	38.9	41.4	44.2
65°	45.4	42.4	40.1	39.7	38.9	36.9	33.8	31.6	31.0	30.6	30.7
62.5°	40.7	34.8	32.8	32.3	30.5	28.2	24.1	20.7	19.0	18.0	18.1
60°	35.3	28.4	24.2	22.3	19.4	16.5	14.0	11.4	10.7	10.3	10.5
57.5°	29.1	21.6	16.7	15.9	13.7	10.9	9.0	7.1	6.8	6.8	7.2
55°	26.7	22.7	19.0	17.8	15.2	13.9	12.0	9.5	8.9	9.6	10.5
52.5°	34.6	32.5	30.7	30.8	34.0	31.5	23.5	32.9	38.3	38.3	36.6
50°	75.9	68.2	97.4	93.7	117.1	132.7	120.5	135.3	156.5	171.4	181.7
47.5°	216.5	224.5	259.4	289.6	313.9	341.2	368.8	385.6	389.8	417.4	436.3
45°	436.0	462.2	500.9	520.6	558.9	604.2	636.1	650.3	733.8	837.7	904.8
42.5°	632.8	653.0	683.4	752.6	822.8	978.2	1156.3	1162.5	1323.5	1466.0	1611.9
40°	770.4	808.4	916.9	1081.1	1460.0	1755.7	1966.0	2172.2	2206.6	2139.6	2176.2
37.5°	948.6	1084.3	1359.2	1802.1	2130.0	2426.9	2546.5	2562.0	2603.7	2629.9	2588.3
35°	1284.4	1736.7	1964.7	2341.2	2579.7	2637.5	2673.7	2709.4	2743.4	2766.8	2792.2
32.5°	2019.8	2580.1	2610.1	2706.9	2751.5	2802.9	2841.2	2863.5	2879.0	2899.4	2968.6
30°	2810.4	2940.8	2951.6	2944.0	2959.2	2993.8	3018.8	3059.7	3100.4	3147.2	3300.6
27.5°	3179.5	3279.4	3248.2	3194.9	3168.5	3196.0	3264.3	3327.8	3446.0	3570.5	3790.6
25°	3588.1	3654.3	3616.3	3521.6	3462.3	3501.4	3603.9	3725.0	3951.1	4150.4	4555.4
22.5°	4025.7	4148.7	4108.9	4080.7	3955.8	3974.5	4055.4	4328.7	4894.1	5789.3	7648.1
20°	4365.0	4515.4	4534.5	4535.2	4508.9	4516.6	4704.5	5585.8	7239.0	12434.0	17039.3
17.5°	4616.6	4704.8	4810.8	4854.3	4905.8	5056.1	6058.3	9107.4	16246.7	25801.6	33118.2
15°	4942.7	5055.6	5170.4	5243.1	5359.5	6186.2	8749.0	18113.4	31096.0	47313.0	68041.3
12.5°	5203.8	5343.0	5434.1	5491.7	5760.1	7934.8	16851.7	30332.6	50588.4	75753.3	113084.4
10°	5348.3	5456.7	5581.0	5780.6	6874.9	11509.6	23764.4	42625.1	73762.7	119091.0	168812.6
7.5°	5420.1	5560.5	5768.4	6071.5	8137.2	16802.0	33060.7	60165.4	102694.9	159137.5	228417.0
5°	5503.8	5763.4	6010.9	6357.9	9117.3	20623.2	40450.4	75125.3	127920.6	196967.2	282527.7
2.5°	5639.1	6029.5	6189.0	6522.4	9707.8	23083.2	44857.0	86826.0	146757.3	227837.5	323899.6
0°	5852.3	6177.1	6272.8	6608.3	10302.3	24299.8	47445.5	90034.5	155147.9	239859.4	340193.9
-2.5°	6093.2	6296.0	6402.1	6776.1	10600.8	25541.1	49482.0	92190.4	153149.6	235854.7	334072.3
-5°	6250.3	6411.4	6514.2	6879.6	10568.0	24299.8	47206.5	85851.9	141466.7	215439.5	303253.1
-7.5°	6357.3	6525.0	6632.6	6967.5	9943.3	21000.0	41695.0	74003.2	120222.3	180889.7	256738.4
-10°	6461.9	6645.0	6785.9	7050.5	8800.5	16031.3	32726.0	55830.0	94021.4	142291.6	199001.3
-12.5°	6556.1	6782.4	6963.7	7085.6	7727.2	12193.6	24049.7	42703.9	67675.7	103708.7	145207.3
-15°	6603.7	6874.5	7077.5	7211.8	7583.9	9641.6	15573.4	28257.9	47248.4	69598.9	96602.1
-17.5°	6521.6	6925.3	7120.7	7268.5	7390.9	7919.8	10985.3	17345.7	29206.9	43848.3	57039.3
-20°	6390.9	6931.0	7152.2	7351.2	7490.3	7634.4	8024.9	11046.4	15871.8	24854.2	33645.8



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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°	6280.4	6782.5	7244.3	7459.4	7619.4	7630.0	7642.1	8005.8	9889.8	12916.1	17566.9
-25°	6203.8	6678.9	7216.2	7549.4	7660.2	7664.2	7603.8	7536.2	7749.8	7964.5	9663.9
-27.5°	6074.2	6589.6	7094.6	7500.9	7665.1	7659.5	7613.6	7568.6	7494.5	7446.2	7629.5
-30°	5915.6	6433.5	6903.7	7312.3	7555.8	7630.6	7599.3	7565.7	7542.9	7526.8	7493.9
-32.5°	5070.6	6241.9	6637.9	7008.6	7356.1	7508.3	7576.1	7560.3	7539.8	7531.0	7536.8
-35°	4141.8	5351.0	6379.4	6643.6	6945.2	7248.0	7461.7	7510.0	7531.4	7527.6	7537.0
-37.5°	3175.8	4265.2	5275.5	6120.1	6483.0	6797.9	7108.5	7314.2	7437.7	7459.0	7488.1
-40°	2737.0	3045.0	4002.2	4851.1	5557.2	6207.4	6536.2	6891.9	7169.3	7280.9	7339.6
-42.5°	2621.1	2743.4	2869.1	3491.7	4222.8	4842.6	5456.6	6066.9	6573.5	6860.1	7046.5
-45°	2570.5	2638.8	2711.3	2811.5	2901.3	3424.8	3988.5	4583.2	5249.0	5746.3	6209.5
-47.5°	2423.3	2560.8	2630.1	2672.6	2704.2	2773.3	2835.0	3002.6	3556.7	3992.4	4475.8
-50°	2228.7	2368.4	2481.7	2582.4	2616.8	2632.8	2651.3	2707.0	2795.5	2859.9	2957.2
-52.5°	2003.4	2134.4	2260.6	2368.5	2445.6	2511.9	2575.3	2619.2	2655.0	2692.2	2727.4
-55°	1788.0	1899.6	2007.7	2109.0	2200.9	2277.5	2352.8	2424.4	2491.7	2554.9	2614.0
-57.5°	1551.7	1663.2	1762.7	1853.6	1931.9	1995.7	2070.1	2149.1	2223.0	2288.7	2352.7
-60°	1313.2	1414.7	1509.8	1595.8	1667.5	1723.9	1796.1	1866.9	1934.6	1995.8	2049.5
-62.5°	1089.1	1175.7	1257.6	1333.5	1401.4	1461.9	1522.5	1583.2	1647.2	1704.4	1754.9
-65°	899.6	968.7	1026.9	1081.0	1126.7	1181.4	1239.7	1294.1	1350.4	1403.4	1451.7
-67.5°	709.2	767.8	816.7	863.5	901.6	940.1	983.5	1024.8	1064.6	1105.7	1146.0
-70°	535.2	576.5	607.3	639.4	676.9	712.0	747.0	782.1	815.2	851.4	888.8
-72.5°	399.4	419.5	439.8	465.8	488.2	513.6	538.7	565.7	593.0	619.3	643.8
-75°	319.7	332.5	347.9	360.5	370.2	382.6	396.5	413.4	430.5	447.5	463.6
-77.5°	284.4	293.2	300.3	305.7	310.4	316.7	323.1	335.0	347.9	362.1	376.5
-80°	257.2	262.8	267.7	271.6	275.2	280.4	285.7	296.1	307.1	317.7	328.0
-82.5°	229.4	234.1	238.1	241.6	244.9	249.9	254.9	263.1	271.5	281.8	292.1
-85°	202.5	206.6	210.5	213.7	216.7	220.6	224.5	232.2	239.9	248.2	256.4
-87.5°	179.8	183.3	186.8	189.4	192.0	195.3	198.6	204.7	210.9	217.5	224.2
-90°	3.5	3.5	3.5	3.0	2.4	2.4	2.4	2.4	2.4	1.8	1.2



REPORT NUMBER: P731601 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	206.2	206.7	206.7	206.7	206.7	206.7	206.2	205.6	199.7	193.7	188.4
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.9	3.4	3.4
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.6	4.0	3.5	4.0
77.5°	3.6	3.5	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.5	3.7
75°	4.1	3.5	3.5	3.5	3.5	3.5	4.1	4.7	5.1	5.4	5.2
72.5°	28.9	31.0	32.3	33.1	32.3	31.0	28.9	26.6	24.2	21.7	19.0
70°	37.3	37.6	37.8	37.8	37.8	37.6	37.3	36.6	35.2	33.7	31.8
67.5°	45.8	46.9	47.2	47.3	47.2	46.9	45.8	44.2	41.4	38.9	36.8
65°	29.3	27.1	25.2	23.6	25.2	27.1	29.3	30.7	30.6	31.0	31.6
62.5°	17.6	16.9	16.6	16.5	16.6	16.9	17.6	18.1	18.0	19.0	20.7
60°	10.6	10.7	10.2	9.5	10.2	10.7	10.6	10.5	10.3	10.7	11.4
57.5°	7.7	8.2	8.8	9.5	8.8	8.2	7.7	7.2	6.8	6.8	7.1
55°	11.4	12.5	13.4	14.2	13.4	12.5	11.4	10.5	9.6	8.9	9.5
52.5°	33.0	29.6	28.5	29.5	28.5	29.6	33.0	36.6	38.3	38.3	32.9
50°	187.0	190.8	195.4	200.8	195.4	190.8	187.0	181.7	171.4	156.5	135.3
47.5°	441.7	433.3	425.5	422.9	425.5	433.3	441.7	436.3	417.4	389.8	385.6
45°	837.4	775.8	744.4	763.1	744.4	775.8	837.4	904.8	837.7	733.8	650.3
42.5°	1690.2	1781.4	1852.7	1886.6	1852.7	1781.4	1690.2	1611.9	1466.0	1323.5	1162.5
40°	2119.0	2084.7	2103.1	2131.1	2103.1	2084.7	2119.0	2176.2	2139.6	2206.6	2172.2
37.5°	2608.6	2619.9	2537.6	2402.8	2537.6	2619.9	2608.6	2588.3	2629.9	2603.7	2562.0
35°	2846.0	2992.9	3267.8	3333.7	3267.8	2992.9	2846.0	2792.2	2766.8	2743.4	2709.4
32.5°	3143.3	3295.7	3342.4	3360.9	3342.4	3295.7	3143.3	2968.6	2899.4	2879.0	2863.5
30°	3498.5	3567.4	3550.0	3575.9	3550.0	3567.4	3498.5	3300.6	3147.2	3100.4	3059.7
27.5°	3887.7	3928.0	3914.8	3949.2	3914.8	3928.0	3887.7	3790.6	3570.5	3446.0	3327.8
25°	4892.5	5209.9	5193.3	5267.5	5193.3	5209.9	4892.5	4555.4	4150.4	3951.1	3725.0
22.5°	9911.0	11033.0	11705.0	12355.5	11705.0	11033.0	9911.0	7648.1	5789.3	4894.1	4328.7
20°	22144.6	25378.5	26082.6	25826.1	26082.6	25378.5	22144.6	17039.3	12434.0	7239.0	5585.8
17.5°	47534.1	60437.4	67365.8	68136.4	67365.8	60437.4	47534.1	33118.2	25801.6	16246.7	9107.4
15°	89456.2	112008.3	124812.9	126158.2	124812.9	112008.3	89456.2	68041.3	47313.0	31096.0	18113.4
12.5°	146239.3	182153.7	208519.0	211460.4	208519.0	182153.7	146239.3	113084.4	75753.3	50588.4	30332.6
10°	224019.0	272574.9	310971.3	320325.2	310971.3	272574.9	224019.0	168812.6	119091.0	73762.7	42625.1
7.5°	301650.9	357063.2	402253.1	412885.5	402253.1	357063.2	301650.9	228417.0	159137.5	102694.9	60165.4
5°	362338.4	433237.2	469299.5	481214.4	469299.5	433237.2	362338.4	282527.7	196967.2	127920.6	75125.3
2.5°	408597.2	475542.8	517878.8	535248.7	517878.8	475542.8	408597.2	323899.6	227837.5	146757.3	86826.0
0°	426454.1	491391.5	545304.1	578829.5	545304.1	491391.5	426454.1	340193.9	239859.4	155147.9	90034.5
-2.5°	419454.5	481977.9	527797.1	549544.5	527797.1	481977.9	419454.5	334072.3	235854.7	153149.6	92190.4
-5°	384069.1	447166.5	482592.8	493814.4	482592.8	447166.5	384069.1	303253.1	215439.5	141466.7	85851.9
-7.5°	324771.0	380310.7	422316.8	429846.3	422316.8	380310.7	324771.0	256738.4	180889.7	120222.3	74003.2
-10°	257400.7	305480.1	337525.1	343586.7	337525.1	305480.1	257400.7	199001.3	142291.6	94021.4	55830.0
-12.5°	182458.7	224691.4	250027.2	254702.2	250027.2	224691.4	182458.7	145207.3	103708.7	67675.7	42703.9
-15°	123989.8	150295.7	165651.6	167202.1	165651.6	150295.7	123989.8	96602.1	69598.9	47248.4	28257.9
-17.5°	77580.5	93227.9	102798.6	102887.3	102798.6	93227.9	77580.5	57039.3	43848.3	29206.9	17345.7
-20°	44914.5	52381.4	57736.0	57713.5	57736.0	52381.4	44914.5	33645.8	24854.2	15871.8	11046.4



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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°	23401.1	27838.9	31067.6	30920.0	31067.6	27838.9	23401.1	17566.9	12916.1	9889.8	8005.8
-25°	11491.0	13190.0	14320.9	14232.6	14320.9	13190.0	11491.0	9663.9	7964.5	7749.8	7536.2
-27.5°	7787.4	7974.3	8103.4	8116.9	8103.4	7974.3	7787.4	7629.5	7446.2	7494.5	7568.6
-30°	7481.2	7523.9	7569.0	7580.6	7569.0	7523.9	7481.2	7493.9	7526.8	7542.9	7565.7
-32.5°	7555.2	7588.5	7638.0	7669.2	7638.0	7588.5	7555.2	7536.8	7531.0	7539.8	7560.3
-35°	7560.5	7599.3	7656.4	7682.1	7656.4	7599.3	7560.5	7537.0	7527.6	7531.4	7510.0
-37.5°	7525.4	7572.8	7621.8	7644.3	7621.8	7572.8	7525.4	7488.1	7459.0	7437.7	7314.2
-40°	7391.8	7440.2	7476.1	7479.0	7476.1	7440.2	7391.8	7339.6	7280.9	7169.3	6891.9
-42.5°	7170.7	7230.7	7258.3	7253.3	7258.3	7230.7	7170.7	7046.5	6860.1	6573.5	6066.9
-45°	6648.8	6861.3	6965.6	6991.1	6965.6	6861.3	6648.8	6209.5	5746.3	5249.0	4583.2
-47.5°	5036.0	5347.5	5547.1	5626.6	5547.1	5347.5	5036.0	4475.8	3992.4	3556.7	3002.6
-50°	3084.4	3113.4	3132.5	3142.3	3132.5	3113.4	3084.4	2957.2	2859.9	2795.5	2707.0
-52.5°	2756.7	2765.1	2769.6	2770.2	2769.6	2765.1	2756.7	2727.4	2692.2	2655.0	2619.2
-55°	2656.5	2673.2	2683.7	2686.3	2683.7	2673.2	2656.5	2614.0	2554.9	2491.7	2424.4
-57.5°	2395.0	2404.6	2415.1	2421.7	2415.1	2404.6	2395.0	2352.7	2288.7	2223.0	2149.1
-60°	2081.7	2090.4	2092.1	2086.2	2092.1	2090.4	2081.7	2049.5	1995.8	1934.6	1866.9
-62.5°	1782.4	1790.6	1798.6	1801.5	1798.6	1790.6	1782.4	1754.9	1704.4	1647.2	1583.2
-65°	1474.3	1478.3	1480.2	1476.7	1480.2	1478.3	1474.3	1451.7	1403.4	1350.4	1294.1
-67.5°	1165.0	1172.9	1184.3	1192.0	1184.3	1172.9	1165.0	1146.0	1105.7	1064.6	1024.8
-70°	897.4	893.8	901.4	907.3	901.4	893.8	897.4	888.8	851.4	815.2	782.1
-72.5°	647.0	643.2	640.5	635.6	640.5	643.2	647.0	643.8	619.3	593.0	565.7
-75°	462.7	458.0	457.3	456.0	457.3	458.0	462.7	463.6	447.5	430.5	413.4
-77.5°	376.7	374.9	372.6	369.8	372.6	374.9	376.7	376.5	362.1	347.9	335.0
-80°	329.0	329.1	327.7	326.0	327.7	329.1	329.0	328.0	317.7	307.1	296.1
-82.5°	292.6	292.6	291.7	290.6	291.7	292.6	292.6	292.1	281.8	271.5	263.1
-85°	256.9	257.3	256.3	255.2	256.3	257.3	256.9	256.4	248.2	239.9	232.2
-87.5°	224.9	225.5	225.0	224.5	225.0	225.5	224.9	224.2	217.5	210.9	204.7
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.4	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°	183.1	179.6	176.0	174.3	172.5	169.0	165.4	160.7	155.9	150.0	144.1
87.5°	2.4	2.9	3.4	3.4	3.5	3.5	3.5	3.5	3.5	4.1	4.7
85°	3.4	3.4	3.5	4.0	4.4	4.3	4.3	4.2	4.1	4.4	4.7
82.5°	3.5	4.0	4.4	4.5	4.7	4.7	4.7	4.9	5.1	5.0	4.9
80°	4.4	4.5	4.7	4.7	4.7	5.0	5.1	5.5	5.9	5.8	5.7
77.5°	3.9	4.4	4.8	5.0	5.2	5.5	5.9	5.9	6.0	6.4	6.5
75°	5.4	6.4	7.0	7.2	7.0	6.2	6.1	6.5	6.7	6.9	7.1
72.5°	16.7	15.4	14.8	14.2	13.0	12.6	12.1	11.1	9.9	8.2	7.1
70°	30.4	29.1	28.3	28.3	28.3	27.6	24.2	20.3	17.2	14.9	12.0
67.5°	36.8	38.4	40.1	41.2	40.5	40.2	37.2	33.0	31.6	28.8	20.9
65°	33.8	36.9	38.9	39.7	40.1	42.4	45.4	44.5	46.3	44.5	34.7
62.5°	24.1	28.2	30.5	32.3	32.8	34.8	40.7	47.1	56.4	59.0	47.9
60°	14.0	16.5	19.4	22.3	24.2	28.4	35.3	45.7	58.9	58.0	53.4
57.5°	9.0	10.9	13.7	15.9	16.7	21.6	29.1	42.0	55.3	54.8	48.1
55°	12.0	13.9	15.2	17.8	19.0	22.7	26.7	37.3	49.8	53.9	51.6
52.5°	23.5	31.5	34.0	30.8	30.7	32.5	34.6	43.1	50.6	56.7	58.9
50°	120.5	132.7	117.1	93.7	97.4	68.2	75.9	74.0	70.8	74.1	71.9
47.5°	368.8	341.2	313.9	289.6	259.4	224.5	216.5	167.4	162.5	120.8	120.5
45°	636.1	604.2	558.9	520.6	500.9	462.2	436.0	398.5	324.0	289.4	201.0
42.5°	1156.3	978.2	822.8	752.6	683.4	653.0	632.8	608.3	568.6	498.3	416.8
40°	1966.0	1755.7	1460.0	1081.1	916.9	808.4	770.4	762.0	742.0	704.2	618.0
37.5°	2546.5	2426.9	2130.0	1802.1	1359.2	1084.3	948.6	874.9	870.3	850.3	793.0
35°	2673.7	2637.5	2579.7	2341.2	1964.7	1736.7	1284.4	1063.1	974.5	958.6	939.3
32.5°	2841.2	2802.9	2751.5	2706.9	2610.1	2580.1	2019.8	1404.0	1115.3	1056.8	1026.1
30°	3018.8	2993.8	2959.2	2944.0	2951.6	2940.8	2810.4	2027.6	1428.0	1151.9	1116.9
27.5°	3264.3	3196.0	3168.5	3194.9	3248.2	3279.4	3179.5	2792.7	1869.5	1411.8	1207.9
25°	3603.9	3501.4	3462.3	3521.6	3616.3	3654.3	3588.1	3334.0	2693.7	1759.0	1303.0
22.5°	4055.4	3974.5	3955.8	4080.7	4108.9	4148.7	4025.7	3873.2	3528.9	2283.2	1592.6
20°	4704.5	4516.6	4508.9	4535.2	4534.5	4515.4	4365.0	4227.5	3850.3	2957.5	1917.3
17.5°	6058.3	5056.1	4905.8	4854.3	4810.8	4704.8	4616.6	4404.6	4131.7	3526.8	2232.2
15°	8749.0	6186.2	5359.5	5243.1	5170.4	5055.6	4942.7	4698.0	4441.0	3879.5	2683.4
12.5°	16851.7	7934.8	5760.1	5491.7	5434.1	5343.0	5203.8	5084.9	4744.7	4198.1	3149.8
10°	23764.4	11509.6	6874.9	5780.6	5581.0	5456.7	5348.3	5227.9	4942.7	4485.9	3605.9
7.5°	33060.7	16802.0	8137.2	6071.5	5768.4	5560.5	5420.1	5300.3	5068.5	4608.3	3908.4
5°	40450.4	20623.2	9117.3	6357.9	6010.9	5763.4	5503.8	5376.1	5146.1	4654.9	4107.8
2.5°	44857.0	23083.2	9707.8	6522.4	6189.0	6029.5	5639.1	5450.4	5175.9	4686.5	4234.3
0°	47445.5	24299.8	10302.3	6608.3	6272.8	6177.1	5852.3	5520.3	5164.7	4696.9	4295.3
-2.5°	49482.0	25541.1	10600.8	6776.1	6402.1	6296.0	6093.2	5790.3	5224.4	4709.8	4331.1
-5°	47206.5	24299.8	10568.0	6879.6	6514.2	6411.4	6250.3	5966.8	5315.1	4738.3	4304.9
-7.5°	41695.0	21000.0	9943.3	6967.5	6632.6	6525.0	6357.3	6077.5	5501.6	4883.9	4244.4
-10°	32726.0	16031.3	8800.5	7050.5	6785.9	6645.0	6461.9	6109.6	5579.6	4998.8	4117.1
-12.5°	24049.7	12193.6	7727.2	7085.6	6963.7	6782.4	6556.1	6098.0	5627.8	5153.4	4032.8
-15°	15573.4	9641.6	7583.9	7211.8	7077.5	6874.5	6603.7	6066.6	5638.6	5247.5	3833.9
-17.5°	10985.3	7919.8	7390.9	7268.5	7120.7	6925.3	6521.6	6029.5	5590.9	4978.4	3424.6
-20°	8024.9	7634.4	7490.3	7351.2	7152.2	6931.0	6390.9	5959.5	5464.5	4424.6	3066.2



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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°	7642.1	7630.0	7619.4	7459.4	7244.3	6782.5	6280.4	5846.2	5277.1	3877.4	2717.6
-25°	7603.8	7664.2	7660.2	7549.4	7216.2	6678.9	6203.8	5650.9	4656.6	3401.5	2393.7
-27.5°	7613.6	7659.5	7665.1	7500.9	7094.6	6589.6	6074.2	5339.9	3893.3	2894.7	2383.1
-30°	7599.3	7630.6	7555.8	7312.3	6903.7	6433.5	5915.6	4528.4	3294.8	2508.2	2351.9
-32.5°	7576.1	7508.3	7356.1	7008.6	6637.9	6241.9	5070.6	3727.8	2733.4	2464.1	2327.0
-35°	7461.7	7248.0	6945.2	6643.6	6379.4	5351.0	4141.8	3021.1	2567.3	2415.8	2300.7
-37.5°	7108.5	6797.9	6483.0	6120.1	5275.5	4265.2	3175.8	2678.8	2495.2	2385.4	2227.8
-40°	6536.2	6207.4	5557.2	4851.1	4002.2	3045.0	2737.0	2572.6	2463.1	2318.5	2124.8
-42.5°	5456.6	4842.6	4222.8	3491.7	2869.1	2743.4	2621.1	2527.5	2391.9	2201.2	1988.8
-45°	3988.5	3424.8	2901.3	2811.5	2711.3	2638.8	2570.5	2429.4	2262.1	2051.9	1841.0
-47.5°	2835.0	2773.3	2704.2	2672.6	2630.1	2560.8	2423.3	2275.3	2082.7	1879.9	1684.7
-50°	2651.3	2632.8	2616.8	2582.4	2481.7	2368.4	2228.7	2081.7	1896.1	1708.8	1523.7
-52.5°	2575.3	2511.9	2445.6	2368.5	2260.6	2134.4	2003.4	1871.5	1709.1	1532.4	1357.8
-55°	2352.8	2277.5	2200.9	2109.0	2007.7	1899.6	1788.0	1656.9	1511.2	1347.3	1189.2
-57.5°	2070.1	1995.7	1931.9	1853.6	1762.7	1663.2	1551.7	1428.2	1305.7	1160.0	1018.7
-60°	1796.1	1723.9	1667.5	1595.8	1509.8	1414.7	1313.2	1206.5	1093.4	989.1	879.8
-62.5°	1522.5	1461.9	1401.4	1333.5	1257.6	1175.7	1089.1	1008.5	925.3	835.4	735.3
-65°	1239.7	1181.4	1126.7	1081.0	1026.9	968.7	899.6	828.4	753.4	673.7	586.9
-67.5°	983.5	940.1	901.6	863.5	816.7	767.8	709.2	646.8	585.7	524.1	456.1
-70°	747.0	712.0	676.9	639.4	607.3	576.5	535.2	489.4	437.8	395.2	356.7
-72.5°	538.7	513.6	488.2	465.8	439.8	419.5	399.4	375.0	345.4	312.6	285.9
-75°	396.5	382.6	370.2	360.5	347.9	332.5	319.7	305.3	290.4	274.5	258.5
-77.5°	323.1	316.7	310.4	305.7	300.3	293.2	284.4	272.6	261.0	248.0	234.8
-80°	285.7	280.4	275.2	271.6	267.7	262.8	257.2	247.2	236.8	224.8	213.2
-82.5°	254.9	249.9	244.9	241.6	238.1	234.1	229.4	220.9	212.3	202.6	193.1
-85°	224.5	220.6	216.7	213.7	210.5	206.6	202.5	195.8	189.1	180.9	172.6
-87.5°	198.6	195.3	192.0	189.4	186.8	183.3	179.8	174.7	169.5	162.6	155.8
-90°	2.4	2.4	2.4	3.0	3.5	3.5	3.5	3.5	3.5	4.1	4.7



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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°	138.2	132.3	127.0	121.7	117.0	112.2	106.9	101.6	94.5	87.4	78.6
87.5°	4.7	4.7	5.1	5.4	5.3	5.3	5.6	5.9	5.9	5.9	6.1
85°	4.9	5.1	5.4	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.3
82.5°	5.4	5.8	5.8	5.9	6.3	6.5	6.4	6.2	6.2	6.0	6.5
80°	5.7	6.0	6.2	6.3	6.7	7.1	6.9	6.8	6.9	6.8	6.9
77.5°	6.3	6.3	6.7	6.9	7.0	7.2	7.3	7.3	7.6	7.6	7.4
75°	7.1	6.9	7.0	7.2	7.3	7.3	7.7	7.9	8.2	8.3	7.9
72.5°	7.1	7.2	7.3	7.4	7.7	7.9	8.2	8.5	8.7	8.8	8.4
70°	9.3	7.9	7.9	8.1	8.4	8.6	8.8	9.1	9.2	9.3	9.0
67.5°	13.1	11.0	9.6	9.1	9.1	9.4	9.5	9.8	10.0	9.8	9.6
65°	25.5	17.7	11.7	11.1	10.4	10.4	10.6	10.9	10.9	11.0	10.2
62.5°	37.4	27.6	20.2	14.9	12.8	13.2	11.9	12.7	12.1	12.4	11.5
60°	48.9	37.9	29.7	23.5	18.9	17.1	16.3	14.8	14.6	13.9	13.2
57.5°	48.0	46.4	41.8	33.6	28.8	24.4	22.0	19.8	17.6	16.8	15.0
55°	47.3	47.3	52.3	47.1	41.5	34.7	30.6	26.5	21.9	20.2	17.2
52.5°	55.1	56.2	60.4	63.2	58.9	48.4	44.0	33.9	30.1	24.0	20.9
50°	68.4	74.5	75.3	81.9	78.5	71.5	58.9	48.6	39.1	29.4	24.9
47.5°	103.6	109.4	103.6	109.0	103.9	98.2	82.8	66.0	48.8	38.5	29.1
45°	198.8	165.9	160.6	151.4	139.5	132.7	112.0	85.0	66.3	48.5	33.4
42.5°	331.5	284.9	258.4	202.7	196.7	173.2	146.2	115.6	85.1	59.2	40.8
40°	517.9	448.5	386.2	323.0	268.0	218.9	190.0	150.3	105.2	72.9	50.5
37.5°	698.8	616.4	544.8	450.8	358.9	293.4	238.1	187.5	131.1	92.5	60.6
35°	849.4	772.4	676.3	575.6	479.0	369.4	289.6	229.1	165.9	113.0	71.0
32.5°	973.0	895.1	785.0	683.0	574.7	445.4	352.4	273.3	201.1	134.4	81.8
30°	1065.3	991.1	886.4	767.4	652.3	524.4	415.3	315.4	236.8	156.6	94.2
27.5°	1160.9	1089.6	984.7	853.1	719.4	592.3	467.0	355.2	272.7	179.4	110.6
25°	1256.5	1183.4	1086.2	947.9	786.6	645.6	513.9	393.1	306.8	203.4	126.1
22.5°	1340.0	1269.8	1187.3	1048.0	862.6	697.3	557.9	434.1	329.8	225.4	140.7
20°	1416.9	1343.2	1282.0	1132.8	945.1	759.4	601.0	466.0	351.2	245.6	154.3
17.5°	1526.6	1408.5	1331.4	1198.0	1022.9	823.0	645.5	496.2	370.8	263.8	166.9
15°	1777.8	1472.6	1380.1	1255.4	1086.2	883.0	690.1	525.2	388.7	280.1	178.1
12.5°	2007.5	1533.4	1431.0	1304.6	1133.8	935.6	733.8	552.6	404.6	295.4	187.6
10°	2239.6	1592.3	1480.9	1352.2	1174.6	981.0	775.8	581.0	424.4	310.0	196.0
7.5°	2494.0	1650.1	1527.5	1397.8	1209.8	1018.1	812.5	613.2	443.6	323.2	203.3
5°	2725.1	1703.4	1575.8	1448.6	1245.5	1047.4	843.8	642.9	461.1	334.6	209.5
2.5°	2887.0	1748.5	1623.4	1496.2	1276.3	1070.9	870.2	669.4	476.8	344.3	214.6
0°	3007.6	1788.5	1666.8	1538.1	1301.8	1089.2	891.9	692.3	490.2	352.0	218.5
-2.5°	3002.6	1822.0	1702.4	1578.5	1349.0	1115.9	905.9	704.3	504.4	362.7	226.5
-5°	2951.3	1851.6	1734.7	1612.5	1388.6	1136.7	915.3	712.4	515.9	371.3	233.1
-7.5°	2887.9	1884.6	1765.1	1640.0	1419.1	1150.7	920.0	716.7	524.6	377.4	238.3
-10°	2783.2	1917.1	1793.2	1653.2	1425.3	1158.9	921.6	717.4	530.5	381.1	241.9
-12.5°	2654.0	1946.8	1817.2	1658.6	1422.0	1162.9	927.7	716.6	532.8	382.3	243.7
-15°	2482.1	1986.6	1846.5	1657.1	1412.5	1161.4	927.1	711.6	528.5	379.5	243.7
-17.5°	2239.7	2016.4	1874.4	1651.4	1398.0	1154.7	919.3	701.1	521.1	372.5	241.2
-20°	2210.8	2044.0	1889.9	1633.6	1377.5	1140.2	903.9	684.6	510.6	363.1	236.7



REPORT NUMBER: P731601 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2230.9	2075.2	1882.5	1603.6	1352.5	1119.0	881.8	662.8	496.7	351.4	230.5
-25°	2235.1	2105.0	1871.7	1587.3	1323.6	1089.4	855.9	641.4	479.7	337.3	222.8
-27.5°	2233.4	2099.6	1854.7	1552.9	1291.9	1052.8	827.3	626.3	465.7	320.9	213.5
-30°	2228.1	2043.1	1795.0	1503.0	1247.9	1011.7	794.1	607.6	450.0	307.7	202.7
-32.5°	2197.4	1980.0	1718.1	1446.4	1195.8	965.3	757.3	584.7	430.8	296.7	195.9
-35°	2116.7	1894.3	1639.6	1381.2	1138.1	920.4	721.3	557.7	408.2	282.9	190.1
-37.5°	2028.4	1787.9	1560.0	1310.1	1074.9	870.1	687.8	528.4	382.2	266.4	183.4
-40°	1900.6	1671.8	1454.9	1230.4	1010.3	813.9	649.2	495.5	358.6	247.2	175.2
-42.5°	1766.5	1550.2	1343.8	1136.3	940.7	763.1	605.7	458.2	333.5	232.6	165.4
-45°	1630.7	1424.7	1227.9	1043.8	866.3	706.4	558.6	417.9	305.0	219.6	157.9
-47.5°	1487.1	1295.7	1114.9	945.0	795.8	644.1	504.0	381.9	273.5	204.6	154.9
-50°	1339.1	1163.9	1000.4	853.0	715.2	576.7	447.3	342.1	254.0	187.6	151.4
-52.5°	1189.5	1030.8	891.0	760.8	631.0	503.3	395.8	299.6	232.5	178.7	147.2
-55°	1036.8	907.8	786.3	664.1	542.5	437.6	340.8	271.1	209.1	173.1	142.7
-57.5°	904.2	791.1	676.1	562.4	461.9	371.4	298.5	241.2	197.8	166.8	139.9
-60°	773.4	667.1	560.8	470.3	385.3	316.1	263.5	216.7	189.6	160.4	136.5
-62.5°	637.4	542.9	460.9	382.3	323.0	274.2	231.3	205.5	180.4	155.7	132.8
-65°	509.8	434.2	364.1	319.0	274.7	238.1	217.5	193.7	172.7	150.6	128.6
-67.5°	387.9	346.2	304.7	264.3	240.9	221.9	202.9	184.0	165.3	144.9	124.3
-70°	318.2	281.0	257.1	239.7	222.6	205.8	191.1	174.9	157.4	139.4	119.6
-72.5°	268.5	251.5	235.1	219.5	206.2	192.8	179.6	165.5	150.0	133.5	114.6
-75°	242.5	228.6	216.1	203.8	191.5	179.5	168.6	156.5	142.3	127.3	109.4
-77.5°	222.2	210.1	198.9	188.2	177.9	167.9	157.9	147.2	134.2	120.6	104.0
-80°	202.8	192.7	183.1	173.5	164.7	156.1	146.7	137.2	125.4	113.5	98.3
-82.5°	184.4	175.7	166.9	158.1	150.3	142.5	134.7	126.8	116.5	106.1	92.8
-85°	165.2	157.8	150.0	142.2	135.4	128.6	123.1	117.3	108.7	100.0	88.2
-87.5°	149.7	143.6	137.3	131.1	125.8	120.5	115.1	109.5	101.7	93.8	83.5
-90°	4.7	4.7	4.7	4.7	4.7	4.7	5.3	5.9	5.9	5.9	5.9



REPORT NUMBER: P731601 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	69.7	57.9	46.1	32.5	18.9	12.4	5.9
87.5°	6.2	6.2	6.1	6.1	6.1	6.1	5.9
85°	6.5	6.4	6.3	6.4	6.3	6.2	5.9
82.5°	6.8	6.7	6.5	6.6	6.5	6.4	5.9
80°	7.1	6.9	6.8	6.8	6.7	6.5	5.9
77.5°	7.5	7.2	7.0	7.1	7.0	6.7	5.9
75°	7.8	7.6	7.3	7.3	7.2	6.8	5.9
72.5°	8.2	8.1	7.7	7.6	7.4	7.0	5.9
70°	8.6	8.5	8.1	7.9	7.6	7.1	5.9
67.5°	9.3	8.9	8.5	8.2	7.9	7.3	5.9
65°	10.0	9.5	8.9	8.5	8.1	7.4	5.9
62.5°	10.7	10.2	9.4	8.8	8.4	7.6	5.9
60°	11.5	10.9	9.8	9.1	8.6	7.8	5.9
57.5°	13.4	11.6	10.5	9.4	8.9	7.9	5.9
55°	15.6	12.4	11.4	9.7	9.3	8.1	5.9
52.5°	17.9	13.4	12.3	10.0	9.6	8.2	5.9
50°	20.5	15.9	13.2	10.3	10.0	8.4	5.9
47.5°	23.3	18.4	14.2	10.7	10.5	8.5	5.9
45°	27.0	21.1	15.3	11.5	10.9	8.6	5.9
42.5°	30.9	23.9	16.4	12.3	11.4	8.8	5.9
40°	35.0	26.7	18.1	13.5	11.9	8.9	5.9
37.5°	39.4	29.6	20.3	14.9	12.5	9.1	5.9
35°	43.9	33.0	22.5	16.3	13.0	9.2	5.9
32.5°	49.8	36.6	24.8	17.9	13.6	9.3	5.9
30°	58.6	40.2	27.0	19.4	14.2	9.5	5.9
27.5°	67.2	43.8	29.8	21.0	14.8	9.6	5.9
25°	75.8	47.4	32.7	22.6	15.4	9.7	5.9
22.5°	84.1	51.0	35.5	24.2	16.1	9.8	5.9
20°	92.2	54.8	38.1	25.8	16.7	9.9	5.9
17.5°	99.6	58.5	40.7	27.4	17.3	10.1	5.9
15°	106.2	62.0	43.2	29.1	17.9	10.2	5.9
12.5°	112.3	65.3	45.5	30.6	18.6	10.2	5.9
10°	117.7	68.5	47.8	32.2	19.2	10.3	5.9
7.5°	122.6	71.5	49.9	33.7	19.7	10.4	5.9
5°	126.9	74.2	51.9	35.1	20.3	10.5	5.9
2.5°	130.5	76.8	53.8	36.5	20.8	10.5	5.9
0°	133.5	79.1	55.5	37.8	21.3	10.6	5.9
-2.5°	137.8	82.4	57.9	39.5	22.4	11.1	5.9
-5°	141.4	85.5	60.2	41.0	23.5	11.5	5.9
-7.5°	144.3	88.3	62.4	42.5	24.5	11.9	5.9
-10°	146.5	90.8	64.3	43.9	25.5	12.4	5.9
-12.5°	148.0	93.0	66.1	45.1	26.4	12.8	5.9
-15°	148.7	95.0	67.7	46.3	27.2	13.2	5.9
-17.5°	148.7	96.6	69.2	47.3	28.0	13.5	5.9
-20°	148.1	98.0	70.4	48.2	28.7	13.9	5.9



REPORT NUMBER: P731601 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	146.9	99.0	71.4	49.0	29.4	14.2	5.9
-25°	144.9	99.8	72.2	49.7	29.9	14.5	5.9
-27.5°	142.1	100.5	72.9	50.3	30.4	14.8	5.9
-30°	138.3	100.8	73.3	50.7	30.8	15.0	5.9
-32.5°	133.6	100.8	73.8	51.1	31.1	15.2	5.9
-35°	131.8	100.5	74.2	51.3	31.4	15.4	5.9
-37.5°	131.0	100.1	74.4	51.4	31.5	15.6	5.9
-40°	129.9	100.1	74.3	51.3	31.6	15.7	5.9
-42.5°	128.3	99.8	74.3	51.3	31.6	15.8	5.9
-45°	126.3	99.2	74.2	51.2	31.5	15.9	5.9
-47.5°	123.8	98.4	73.9	51.0	31.3	15.9	5.9
-50°	122.2	97.4	73.5	50.8	31.0	15.9	5.9
-52.5°	120.4	96.1	72.8	50.4	30.6	15.9	5.9
-55°	118.3	94.8	72.0	49.9	30.2	15.9	5.9
-57.5°	115.9	93.2	71.0	49.2	29.7	15.8	5.9
-60°	113.3	91.4	69.8	48.4	29.0	15.7	5.9
-62.5°	110.5	89.3	68.4	47.5	28.6	15.5	5.9
-65°	107.3	86.9	66.9	46.4	28.0	15.4	5.9
-67.5°	103.9	84.3	65.1	45.2	27.4	15.2	5.9
-70°	100.1	81.6	63.2	43.9	26.7	14.9	5.9
-72.5°	96.3	78.6	61.1	42.8	25.9	14.7	5.9
-75°	92.2	75.4	58.8	41.6	25.0	14.4	5.9
-77.5°	88.0	72.1	56.9	40.3	24.1	14.1	5.9
-80°	83.5	69.2	55.0	38.9	23.2	13.8	5.9
-82.5°	80.1	66.6	53.0	37.4	22.2	13.5	5.9
-85°	76.8	63.8	50.8	35.9	21.1	13.1	5.9
-87.5°	73.3	60.9	48.5	34.2	20.0	12.8	5.9
-90°	5.9	5.9	5.9	5.9	5.9	5.9	5.9

(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

