

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: P731638 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-80-7F-CV1**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731638 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-44)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-40-80-7F-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 7F BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

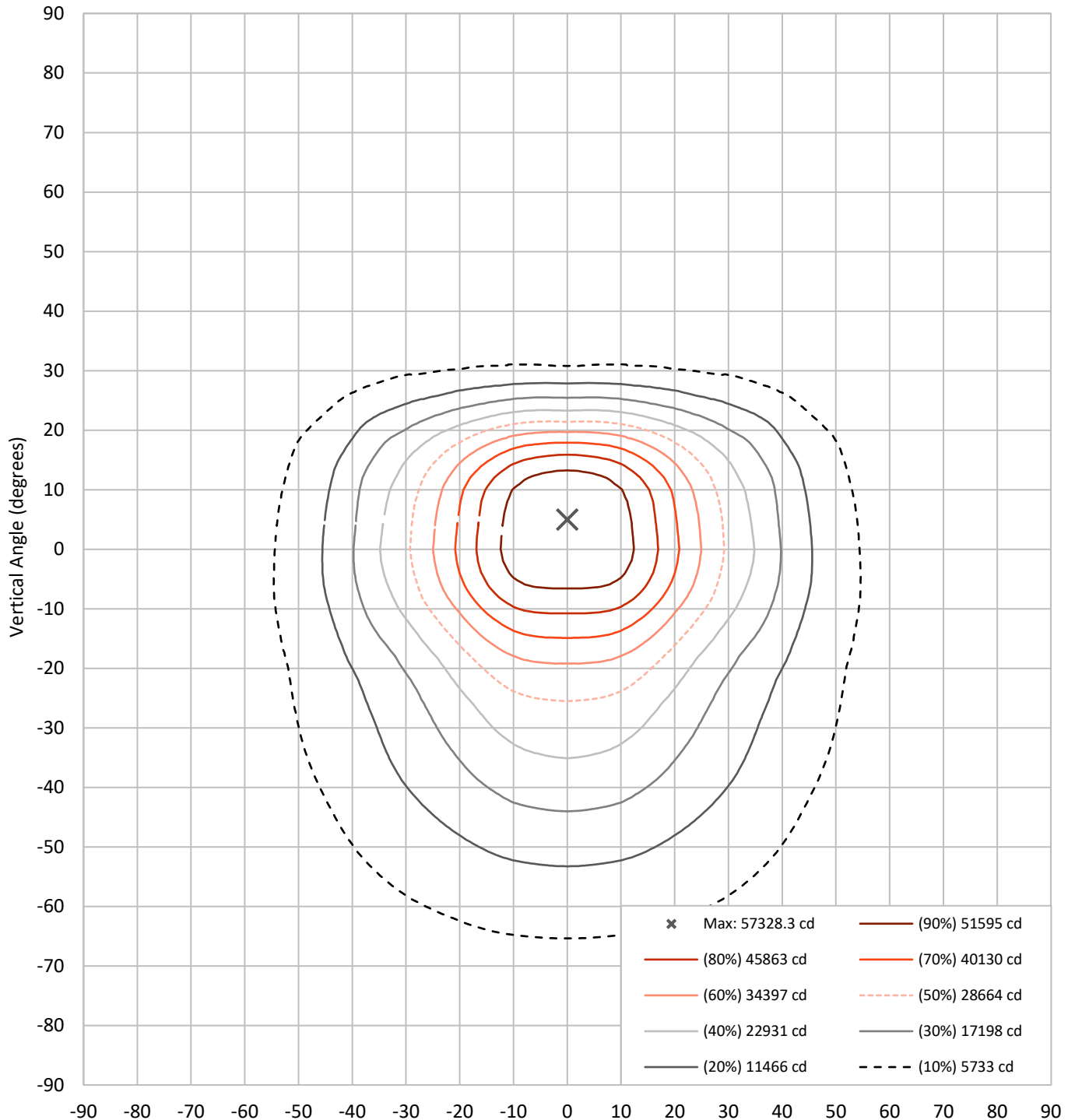
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	56172.1 lumens	Max Intensity:	57328.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	80.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	57.7°H x 46.8°V	Field Angle (10%):	107.9°H x 96.1°V
Beam Lumens:	27017.6 lumens	Field Lumens:	52073.2 lumens
Beam Efficiency:	48.1%	Field Efficiency:	92.7%

Input Watts (W): 697.2
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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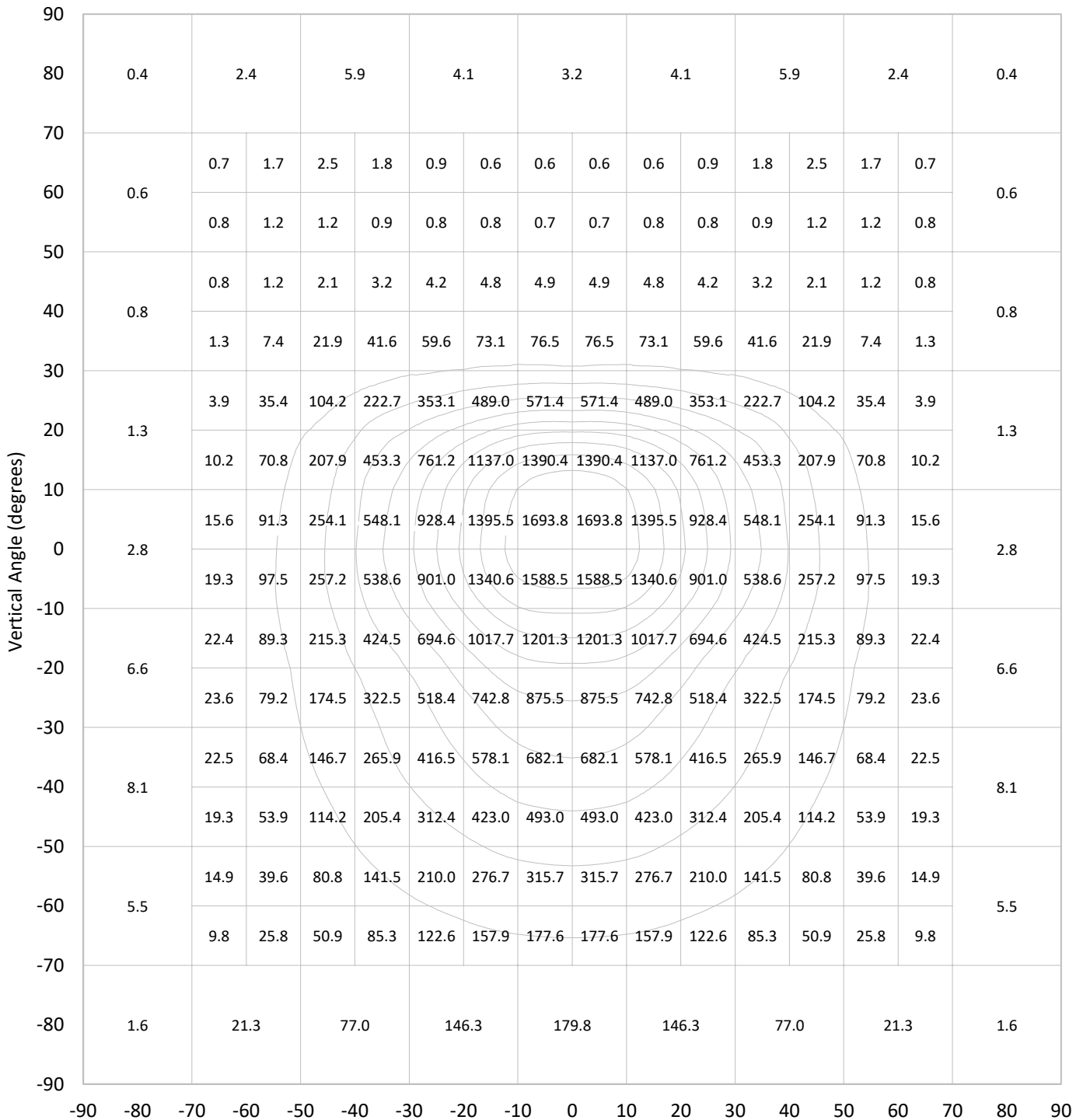
Iso-Candela Plot





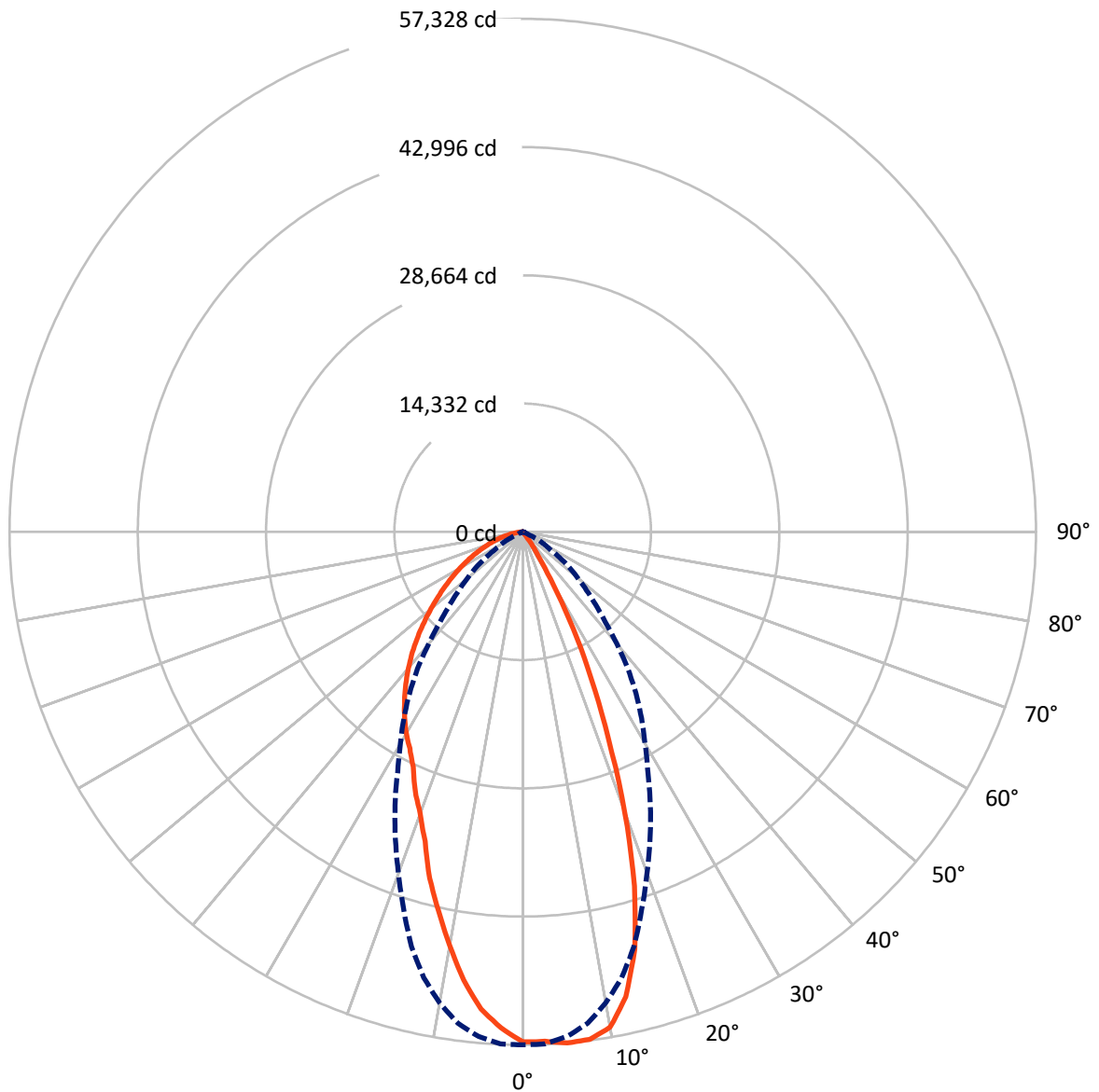
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Lumen Table



REPORT NUMBER: P731638 (CONVERTED FROM TYPE C PHOTOMETRY)
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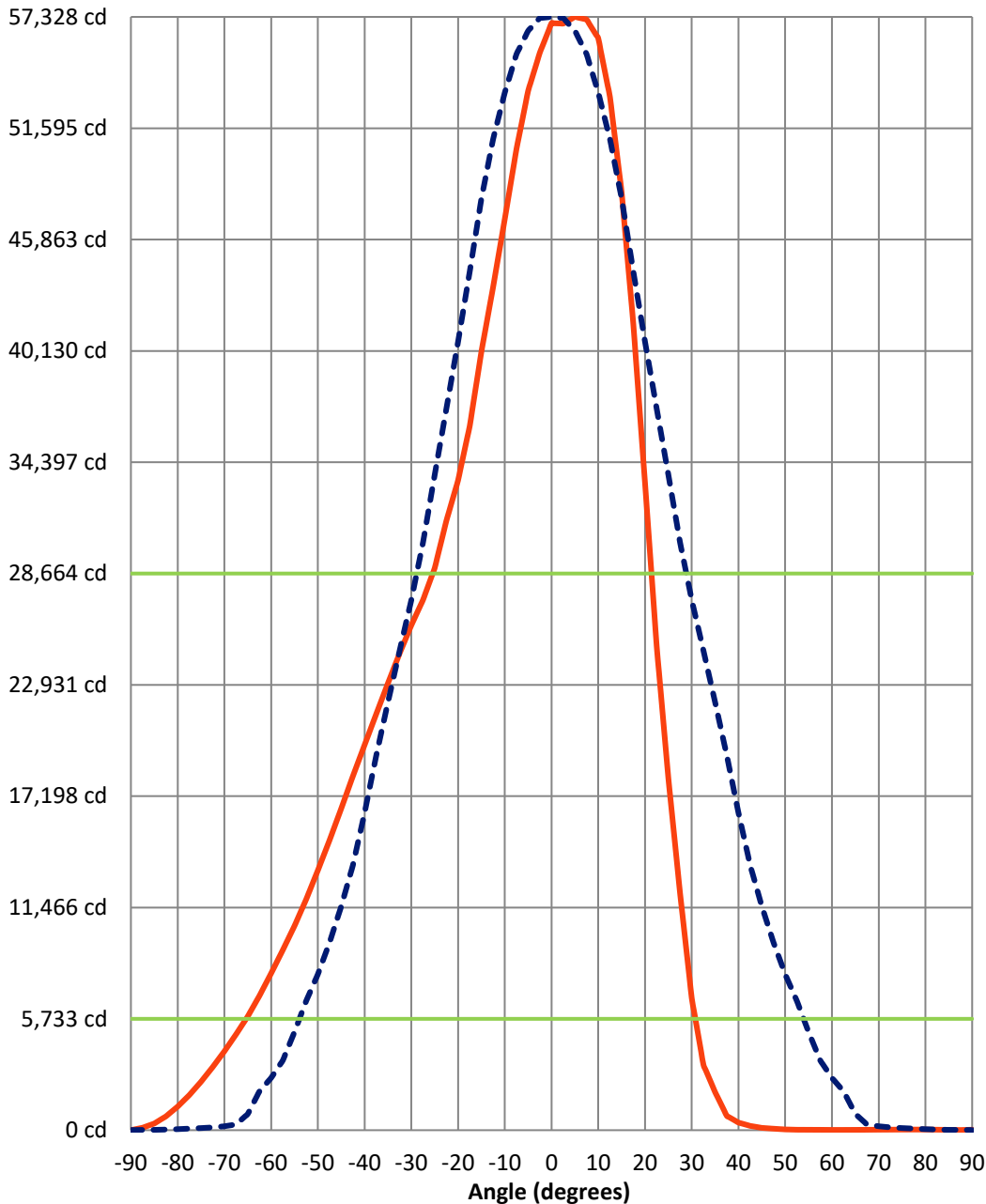
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 5-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 57.7°
 V Angle: 46.8°
 Lumens: 27017.6
 Efficiency: 48.1%

Field:
 H Angle: 107.9°
 V Angle: 96.1°
 Lumens: 52073.2
 Efficiency: 92.7%

Spill:
 Lumens: 4098.9
 Efficiency: 7.3%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 5-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	7.9	8.9	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3	13.8
87.5°	7.9	9.1	10.5	10.6	10.9	11.4	12.0	11.8	11.6	11.3	10.9
85°	7.9	9.4	11.2	11.9	12.9	14.3	16.0	16.3	16.3	16.2	15.9
82.5°	7.9	9.7	11.8	13.2	15.0	17.2	20.0	20.7	21.1	22.1	24.5
80°	7.9	10.0	12.5	14.4	17.0	20.1	23.6	24.0	25.9	29.5	34.8
77.5°	7.9	10.3	13.2	15.6	18.9	22.1	24.5	26.5	30.5	36.6	42.8
75°	7.9	10.6	13.8	16.8	20.5	22.5	25.2	28.8	34.5	39.3	44.1
72.5°	7.9	10.9	14.4	18.0	20.5	22.8	26.0	30.5	35.4	40.3	45.3
70°	7.9	11.1	15.0	18.9	20.5	23.1	26.6	31.3	36.3	41.4	47.6
67.5°	7.9	11.4	15.6	18.7	20.5	23.3	27.4	32.0	37.1	43.7	50.2
65°	7.9	11.6	16.1	18.5	20.4	23.7	28.2	32.6	39.1	45.9	53.0
62.5°	7.9	11.9	16.7	18.3	20.2	24.5	29.0	33.9	41.0	48.1	56.4
60°	7.9	12.1	17.2	18.0	20.0	25.3	29.8	35.5	42.7	50.8	59.6
57.5°	7.9	12.3	17.0	17.8	20.7	26.1	31.3	37.0	44.6	53.1	61.2
55°	7.9	12.5	16.9	17.4	21.4	26.9	32.8	38.8	46.3	55.0	62.1
52.5°	7.9	12.7	16.7	17.1	22.1	27.7	34.4	40.7	47.8	56.0	63.1
50°	7.9	12.9	16.6	16.7	22.7	29.0	35.8	42.8	48.9	57.0	63.5
47.5°	7.9	13.1	16.5	16.5	23.4	30.2	37.4	45.2	49.9	58.1	64.6
45°	7.9	13.2	16.4	17.0	24.0	31.4	39.6	47.7	52.7	60.1	66.6
42.5°	7.9	13.4	16.4	17.4	24.6	32.5	41.9	50.5	56.0	62.9	69.9
40°	7.9	13.5	16.4	18.2	25.3	33.6	44.3	53.6	60.2	66.6	74.3
37.5°	7.9	13.6	16.4	19.1	26.1	34.6	46.7	57.1	65.5	73.1	79.8
35°	7.9	13.7	16.4	20.1	26.8	36.2	49.3	60.7	71.2	80.9	87.5
32.5°	7.9	13.8	16.4	21.0	27.5	38.1	52.0	64.6	77.1	89.7	102.0
30°	7.9	13.9	16.4	22.1	28.1	40.0	55.0	68.9	83.2	99.3	118.7
27.5°	7.9	14.0	16.5	23.1	30.1	41.9	58.1	73.8	90.1	109.8	137.3
25°	7.9	14.0	16.6	24.1	32.4	43.7	61.2	78.8	98.5	123.7	159.9
22.5°	7.9	14.1	16.7	25.2	34.8	46.4	64.4	83.8	107.2	140.1	234.6
20°	7.9	14.1	16.8	26.2	37.3	51.4	67.5	88.8	116.2	157.1	318.3
17.5°	7.9	14.1	16.9	27.3	39.8	56.5	73.3	93.6	125.2	174.7	409.0
15°	7.9	14.1	17.0	28.3	42.4	61.6	80.7	101.1	134.3	192.6	504.4
12.5°	7.9	14.1	17.1	29.3	45.0	66.7	88.0	111.8	148.4	210.5	602.0
10°	7.9	14.0	17.3	30.2	47.6	71.8	95.2	122.5	166.5	238.1	694.1
7.5°	7.9	14.0	17.4	31.1	50.1	76.7	102.2	133.1	184.6	266.6	769.0
5°	7.9	13.9	17.5	31.9	52.5	81.5	109.0	143.5	202.4	294.3	834.4
2.5°	7.9	13.9	17.6	32.7	54.8	86.1	115.6	153.5	219.5	320.9	889.4
0°	7.9	13.8	17.7	33.4	57.0	90.4	121.8	163.1	235.8	345.8	933.3
-2.5°	7.9	14.0	19.1	37.5	66.2	108.1	152.4	214.4	315.8	462.5	1055.1
-5°	7.9	14.3	20.4	41.4	75.2	125.2	182.1	264.4	393.5	575.6	1164.9
-7.5°	7.9	14.5	21.7	45.2	83.8	141.6	210.8	312.3	467.6	683.2	1262.8
-10°	7.9	14.7	22.9	48.8	91.8	157.0	237.9	357.5	537.1	783.9	1348.8
-12.5°	7.9	14.9	24.1	52.1	99.3	171.3	263.2	399.1	600.8	876.0	1429.0
-15°	7.9	15.1	25.2	55.1	106.1	184.2	286.2	436.6	661.2	959.1	1497.7
-17.5°	7.9	15.2	26.3	57.7	112.1	195.6	306.7	476.6	719.4	1032.7	1550.8
-20°	7.9	15.3	27.2	60.0	117.2	205.3	329.1	517.6	770.8	1095.7	1587.9



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 CATALOG NUMBER: EPH-LS-08-0680N-40-80-7F-CV1

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.9	15.4	28.0	61.9	121.4	213.2	355.8	553.2	814.7	1147.4	1608.3
-25°	7.9	15.5	28.7	63.4	124.6	225.2	378.6	583.1	850.7	1187.1	1611.8
-27.5°	7.9	15.6	29.3	64.4	126.7	237.3	397.1	607.0	878.3	1218.3	1650.0
-30°	7.9	15.6	29.7	64.9	128.2	246.8	411.2	624.5	901.9	1246.2	1674.1
-32.5°	7.9	15.6	30.0	64.9	133.0	253.4	420.5	639.4	919.7	1262.7	1681.4
-35°	7.9	15.6	30.2	64.3	136.1	257.1	427.2	648.8	928.5	1267.7	1671.6
-37.5°	7.9	15.5	30.3	63.3	137.6	258.8	430.4	651.4	928.1	1261.0	1622.1
-40°	7.9	15.4	30.1	61.7	137.2	259.8	429.2	646.9	918.6	1249.3	1570.0
-42.5°	7.9	15.3	29.9	60.3	136.5	257.9	423.4	635.4	904.1	1206.8	1508.1
-45°	7.9	15.2	29.5	59.6	135.7	253.2	413.2	619.6	882.4	1153.2	1438.1
-47.5°	7.9	15.0	28.9	58.0	133.4	245.6	398.5	601.4	850.9	1092.3	1368.6
-50°	7.9	14.8	28.2	57.5	129.6	235.3	383.9	577.1	798.3	1031.2	1290.3
-52.5°	7.9	14.6	27.3	56.9	124.4	222.2	366.0	547.0	747.0	963.2	1204.3
-55°	7.9	14.4	26.3	55.7	117.8	211.2	344.4	511.9	693.3	888.6	1117.9
-57.5°	7.9	14.1	25.2	53.8	109.8	199.0	318.9	478.1	634.5	816.1	1023.9
-60°	7.9	13.8	23.9	51.4	100.8	184.7	291.0	435.6	572.9	740.0	926.5
-62.5°	7.9	13.5	23.1	48.3	94.5	168.4	267.7	388.3	515.5	658.2	830.0
-65°	7.9	13.1	22.1	44.8	87.2	150.4	241.7	341.7	454.5	582.5	727.3
-67.5°	7.9	12.8	21.1	40.7	79.0	133.6	213.4	301.5	390.2	505.6	631.5
-70°	7.9	12.4	20.0	36.2	69.9	118.5	182.8	259.3	338.0	425.1	536.6
-72.5°	7.9	12.0	18.9	33.1	60.1	102.1	157.2	215.3	283.9	359.6	442.1
-75°	7.9	11.6	17.7	30.3	49.6	84.7	131.2	177.1	227.9	292.1	362.2
-77.5°	7.9	11.1	16.4	27.2	42.8	66.3	103.7	140.2	180.6	226.0	279.9
-80°	7.9	10.7	15.2	24.0	36.8	53.3	75.2	102.4	133.1	168.0	206.7
-82.5°	7.9	10.2	13.9	20.7	30.5	43.1	58.5	70.4	84.7	108.6	135.6
-85°	7.9	9.8	12.5	17.3	24.0	32.6	43.1	51.2	59.7	68.8	78.4
-87.5°	7.9	9.3	11.2	13.8	17.4	22.0	27.5	31.8	36.3	41.1	46.1
-90°	7.9	8.9	9.8	9.3	8.9	8.4	7.9	7.4	6.9	6.4	5.9



REPORT NUMBER: P731638 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-7F-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	13.8	13.8	13.8	13.8	14.3	14.8	15.2	15.7	16.7	17.7	18.6
87.5°	11.6	12.3	13.0	13.8	12.8	11.6	10.2	8.7	9.1	9.6	10.2
85°	17.2	18.6	20.3	21.6	20.6	19.8	19.2	18.8	19.8	20.7	21.4
82.5°	26.9	28.5	29.4	29.7	30.2	31.1	32.8	36.3	38.6	40.1	40.9
80°	37.4	38.5	39.4	42.0	46.6	52.1	58.3	65.0	67.2	67.4	66.7
77.5°	43.9	46.3	50.9	57.8	65.5	73.2	81.8	91.1	93.8	92.9	91.2
75°	47.7	53.3	61.4	71.3	81.5	92.0	103.1	113.6	116.6	113.3	108.9
72.5°	51.4	59.9	70.7	83.5	94.7	105.5	117.5	130.7	135.3	128.6	120.7
70°	55.0	65.8	78.1	90.8	103.5	115.8	127.5	140.2	147.7	137.2	121.3
67.5°	58.1	70.6	83.7	96.8	108.4	120.4	133.6	139.0	142.4	125.5	107.5
65°	61.8	75.0	86.9	98.6	111.0	115.9	120.2	124.8	124.1	104.9	85.7
62.5°	65.5	76.3	87.7	96.9	99.9	102.8	102.8	99.9	95.2	82.0	65.5
60°	66.8	76.2	84.0	87.1	87.9	85.0	81.4	77.6	71.9	60.8	49.5
57.5°	67.5	72.6	76.3	77.2	73.8	68.3	65.7	59.8	54.9	48.4	39.2
55°	67.2	66.6	68.7	66.9	62.9	58.3	53.7	49.9	43.8	41.9	37.7
52.5°	65.5	62.5	61.5	59.5	56.7	52.1	47.6	44.5	43.0	40.6	37.2
50°	64.9	61.0	56.3	56.1	54.0	50.6	45.8	45.2	45.2	43.0	39.0
47.5°	65.7	61.1	55.1	55.2	55.4	56.7	52.7	50.9	51.5	57.2	51.1
45°	67.8	65.4	59.1	59.0	64.5	71.9	78.4	60.3	78.5	87.6	94.7
42.5°	71.4	72.5	75.7	64.5	85.4	111.6	124.2	130.6	123.9	152.5	182.1
40°	79.3	82.0	104.0	112.6	121.5	175.8	251.2	268.8	204.2	284.1	333.4
37.5°	89.0	116.7	154.9	201.0	196.9	310.3	428.3	518.9	509.9	482.2	690.5
35°	100.2	159.5	262.4	365.2	410.3	517.9	735.5	893.2	987.0	1043.6	1215.2
32.5°	131.1	210.2	396.8	615.2	803.2	909.9	1115.4	1461.0	1788.0	1983.2	1981.3
30°	185.3	334.9	586.5	922.0	1287.5	1587.3	1757.3	2201.4	2824.5	3267.8	3563.2
27.5°	265.3	486.4	879.1	1365.2	1877.2	2386.2	2725.4	3302.4	4141.1	4816.6	5447.6
25°	363.2	727.2	1208.7	1892.2	2645.1	3291.6	3779.6	4581.6	5644.3	6703.8	7759.5
22.5°	518.9	1006.8	1574.5	2468.4	3492.6	4227.4	4944.1	5921.8	7150.8	8638.2	10247.8
20°	736.0	1332.1	1965.0	2920.5	4340.2	5180.0	6060.0	7226.8	8660.2	10468.0	12617.0
17.5°	970.6	1639.3	2348.0	3413.1	4798.3	5962.1	7143.6	8473.4	10079.8	12176.9	14491.9
15°	1217.4	1928.2	2690.2	3853.0	5227.1	6484.5	7882.6	9612.0	11506.4	13774.3	16195.9
12.5°	1470.4	2198.7	2993.3	4240.5	5636.6	6957.9	8448.8	10247.5	12451.3	15111.6	17653.7
10°	1723.4	2450.7	3259.8	4576.2	6020.6	7381.0	8935.1	10775.5	13017.6	15683.0	18430.7
7.5°	1878.5	2617.0	3477.6	4861.3	6372.8	7753.3	9343.3	11199.6	13409.9	16091.5	18923.2
5°	1995.8	2691.8	3590.8	5055.5	6651.3	8029.0	9661.9	11524.6	13646.0	16340.4	19297.3
2.5°	2087.1	2746.9	3681.2	5200.0	6861.8	8178.9	9851.5	11732.6	13892.1	16649.8	19675.1
0°	2151.4	2784.1	3746.8	5299.0	7020.1	8275.6	9975.2	11857.4	14063.9	16918.7	20011.3
-2.5°	2214.0	2899.2	3880.3	5425.3	7042.9	8290.0	10022.3	11862.5	14063.8	16866.5	19871.9
-5°	2253.3	2995.0	3985.7	5504.9	7019.6	8260.4	9996.3	11791.3	13910.5	16560.7	19355.5
-7.5°	2273.7	3068.3	4061.8	5516.9	6898.3	8086.1	9683.8	11371.2	13404.6	15888.0	18464.9
-10°	2284.5	3112.5	4053.7	5350.8	6646.5	7806.0	9266.6	10883.3	12798.7	15108.0	17492.3
-12.5°	2314.5	3136.4	4017.0	5169.5	6373.1	7489.3	8803.9	10334.8	12095.8	14235.7	16423.3
-15°	2330.8	3148.5	3965.9	4982.4	6085.6	7138.5	8303.1	9731.2	11334.5	13248.6	15189.5
-17.5°	2335.3	3150.7	3903.7	4798.2	5791.2	6756.2	7810.4	9214.1	10673.8	12326.8	13982.0
-20°	2330.2	3144.9	3833.3	4624.7	5501.7	6478.3	7542.6	8767.3	10073.9	11471.6	12850.6



REPORT NUMBER: P731638 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-7F-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2317.4	3132.6	3773.9	4501.7	5362.8	6296.3	7275.3	8335.0	9459.4	10673.1	12071.6
-25°	2310.9	3087.6	3734.1	4414.6	5228.2	6104.9	6994.3	7935.7	8916.1	10187.2	11521.0
-27.5°	2300.8	3040.0	3656.1	4293.8	5072.6	5911.5	6745.7	7605.0	8611.4	9753.4	10991.2
-30°	2270.4	2925.2	3550.0	4152.3	4907.9	5716.2	6512.8	7329.6	8281.9	9358.5	10506.9
-32.5°	2185.0	2794.8	3409.1	4014.0	4709.6	5502.0	6272.2	7064.3	7947.7	8912.4	10017.2
-35°	2089.4	2660.2	3251.0	3842.6	4478.1	5242.3	5991.8	6757.3	7577.3	8482.4	9512.4
-37.5°	2019.8	2515.7	3081.8	3649.5	4259.4	4938.4	5673.3	6410.2	7186.5	8049.0	9023.2
-40°	1936.9	2361.6	2910.0	3453.4	4008.5	4634.6	5321.2	6028.5	6757.2	7617.3	8510.0
-42.5°	1844.2	2254.4	2732.0	3245.5	3769.0	4338.0	4950.8	5623.7	6355.0	7155.1	7993.3
-45°	1764.2	2134.0	2553.9	3034.4	3520.8	4036.2	4604.5	5206.2	5928.5	6672.9	7451.4
-47.5°	1673.2	2008.1	2403.0	2811.2	3269.5	3744.8	4247.3	4833.4	5475.1	6172.2	6886.2
-50°	1574.8	1894.0	2230.8	2610.4	3016.5	3451.6	3910.4	4445.1	5030.9	5653.7	6310.7
-52.5°	1475.9	1768.2	2078.2	2408.7	2777.4	3168.4	3593.4	4069.6	4588.0	5133.8	5713.6
-55°	1367.4	1640.4	1922.5	2222.2	2543.9	2898.6	3278.6	3704.4	4150.0	4644.8	5132.4
-57.5°	1256.0	1502.9	1763.1	2040.6	2329.7	2631.3	2975.7	3336.3	3739.0	4161.9	4592.2
-60°	1139.6	1360.7	1596.5	1851.7	2120.3	2392.1	2671.1	2990.6	3332.4	3683.8	4068.4
-62.5°	1017.5	1216.1	1426.9	1653.2	1899.0	2144.9	2395.1	2659.4	2936.4	3252.0	3572.9
-65°	896.5	1067.5	1255.2	1456.5	1667.1	1888.0	2112.3	2338.7	2581.0	2841.0	3111.2
-67.5°	769.0	923.5	1084.9	1255.8	1442.7	1630.2	1826.0	2030.7	2236.6	2447.3	2669.2
-70°	654.2	776.7	917.4	1066.5	1217.5	1371.0	1540.3	1715.9	1895.4	2074.6	2259.0
-72.5°	538.4	643.7	756.2	875.4	1002.1	1128.6	1260.6	1397.7	1543.4	1694.3	1847.5
-75°	433.2	507.9	600.0	699.4	796.2	891.4	990.5	1101.9	1217.3	1333.6	1449.6
-77.5°	336.1	395.5	459.6	528.0	595.4	671.9	750.2	830.2	913.7	999.5	1086.3
-80°	243.2	280.9	328.1	379.2	428.1	477.6	528.5	580.6	635.0	695.1	760.0
-82.5°	161.2	188.0	216.1	245.5	272.7	299.7	328.7	364.1	399.9	436.6	474.1
-85°	86.2	94.1	110.7	128.2	145.6	163.0	180.4	197.7	215.5	232.8	249.5
-87.5°	50.1	54.0	58.1	62.2	66.5	70.9	75.3	79.6	85.5	91.4	97.3
-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):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6
87.5°	10.7	10.0	9.2	8.4	7.5	9.8	12.2	14.7	17.2	15.9	14.6
85°	21.8	21.9	22.1	22.1	22.2	24.8	27.4	29.9	32.3	29.8	27.2
82.5°	41.1	40.5	39.1	37.0	34.2	33.6	32.8	31.5	30.0	28.7	27.5
80°	65.2	61.9	57.6	52.6	46.8	44.0	41.2	38.2	34.9	33.9	33.1
77.5°	87.7	81.6	74.4	66.6	58.2	53.0	48.3	43.2	37.7	36.2	35.3
75°	103.6	95.8	85.5	74.4	62.7	54.6	48.2	41.8	35.4	33.8	33.6
72.5°	111.8	101.1	87.9	72.4	57.6	47.8	41.8	36.4	31.6	29.8	29.1
70°	105.1	88.9	73.7	59.4	46.2	37.5	33.2	29.4	26.1	25.2	25.7
67.5°	88.8	72.4	58.6	46.3	35.8	28.7	26.2	24.2	22.7	22.2	22.1
65°	69.4	55.6	44.4	35.0	27.5	23.1	22.3	21.4	20.6	19.9	19.3
62.5°	51.2	40.7	33.6	28.3	24.2	21.6	20.9	20.0	19.0	18.0	17.3
60°	39.8	31.6	28.0	25.7	23.7	21.9	21.2	20.8	20.5	20.2	19.6
57.5°	34.7	30.5	27.2	25.8	24.7	23.9	23.5	23.0	22.4	21.5	20.8
55°	33.8	30.6	27.7	27.0	26.4	25.8	25.2	24.5	23.7	22.9	22.5
52.5°	33.8	32.4	30.3	29.3	29.7	28.9	27.3	28.1	28.3	27.5	27.1
50°	38.3	38.6	39.1	35.8	39.2	40.6	38.7	40.3	42.8	43.1	42.9
47.5°	54.2	57.8	62.5	58.9	63.2	69.8	69.2	69.7	75.6	76.3	76.1
45°	86.5	102.2	109.6	113.8	112.2	127.4	130.3	125.4	133.4	135.0	132.6
42.5°	173.3	181.9	201.5	216.9	208.0	223.7	228.4	214.1	228.0	234.3	227.5
40°	388.0	308.4	366.2	406.1	392.2	361.7	414.6	395.7	393.8	415.9	398.6
37.5°	765.9	679.9	739.1	853.0	848.9	705.5	865.4	855.1	718.8	880.3	866.2
35°	1373.6	1532.8	1461.7	1674.8	1736.5	1768.6	1857.3	1949.1	1848.6	1980.9	1977.4
32.5°	2459.6	2789.7	2935.6	2961.6	3235.0	3457.7	3363.4	3720.7	3698.9	3788.2	3879.5
30°	3883.1	4618.9	4991.3	5000.7	5454.1	5853.3	5979.9	6428.3	6693.5	6649.5	7093.7
27.5°	6195.4	6918.4	7531.7	8055.0	8408.4	9037.8	9913.8	10355.8	11007.5	11263.0	11877.0
25°	8808.2	9706.4	10674.6	11585.4	12333.3	13460.6	14550.9	15238.4	16170.7	16901.4	17643.9
22.5°	11638.7	12830.1	14072.5	15434.9	16825.8	18201.3	19525.6	20795.7	22038.8	23411.8	24251.1
20°	14532.4	15879.2	17391.3	19237.8	21167.6	22826.2	24635.1	26626.6	28530.7	30302.8	31641.4
17.5°	16731.5	18815.5	20453.7	22451.2	24847.8	27184.3	29490.3	32116.7	34539.0	36798.5	38813.5
15°	18410.7	20595.4	22969.8	25380.9	27905.5	30687.6	33859.5	36733.4	39725.7	42383.1	44871.9
12.5°	19874.5	22092.4	24577.3	27389.3	30573.7	33560.6	36884.9	40479.0	43653.7	46775.5	49110.6
10°	20954.8	23418.5	25937.7	28765.0	32012.3	35499.5	39102.3	42735.3	46295.0	49308.5	51817.3
7.5°	21550.7	24167.3	26803.0	29755.5	33094.1	36524.2	40123.2	43916.3	47499.4	50602.9	52906.8
5°	22035.8	24696.0	27301.2	30265.5	33744.1	37151.3	40599.1	44219.3	47971.0	51032.1	53429.1
2.5°	22459.2	25054.7	27596.0	30482.1	34067.0	37489.4	41034.3	44787.1	48415.1	51368.0	53701.2
0°	22826.8	25276.9	27762.3	30623.0	34371.8	37835.7	41323.2	44995.4	48691.1	51567.5	53929.2
-2.5°	22560.9	24963.2	27412.2	30336.3	33911.5	37318.9	40826.1	44544.7	48045.3	50958.9	53248.5
-5°	21867.7	24181.7	26613.5	29530.6	32943.3	36280.8	39741.3	43323.2	46613.8	49526.6	51632.8
-7.5°	20854.1	23119.5	25541.9	28413.1	31588.8	34618.0	37710.7	41030.9	44306.3	46878.0	48884.1
-10°	19727.5	21883.5	24113.1	26638.4	29450.3	32279.6	35121.4	38207.9	41093.8	43508.6	45439.7
-12.5°	18389.8	20305.1	22358.0	24560.6	27142.0	29836.8	32546.7	35250.2	37911.9	40084.2	41833.6
-15°	16945.0	18638.7	20513.6	22644.1	24944.2	27322.1	29766.6	32348.4	34745.5	36769.0	38311.3
-17.5°	15519.8	17036.5	18942.1	20879.1	22737.9	24918.4	27349.5	29484.6	31672.1	33489.1	34851.6
-20°	14311.6	15943.2	17600.2	19255.3	21030.9	23150.8	25212.1	27225.0	29169.0	30823.4	32178.2



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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°	13524.0	14957.5	16371.5	17936.9	19742.0	21612.8	23478.3	25308.4	27067.8	28639.4	29928.0
-25°	12807.7	14020.9	15421.0	17010.5	18534.7	20175.7	21937.2	23466.8	25135.7	26558.9	27661.4
-27.5°	12181.6	13382.2	14756.2	16185.8	17564.4	19043.5	20647.9	22107.8	23609.6	24978.2	25940.1
-30°	11636.5	12880.2	14172.3	15480.1	16778.4	18146.8	19541.3	20952.4	22330.3	23571.1	24495.8
-32.5°	11171.8	12338.6	13550.4	14767.5	15951.2	17197.7	18491.2	19788.5	21065.1	22150.8	23056.1
-35°	10643.6	11760.6	12886.6	13979.6	15076.1	16191.0	17391.5	18605.9	19748.2	20739.5	21623.2
-37.5°	10054.2	11130.4	12158.0	13152.9	14169.4	15200.4	16312.3	17428.0	18477.1	19374.4	20217.0
-40°	9467.5	10448.2	11378.9	12307.6	13239.4	14204.8	15210.6	16209.6	17130.5	17979.2	18764.4
-42.5°	8858.0	9716.3	10563.5	11428.0	12287.6	13158.2	14056.7	14965.1	15785.8	16559.9	17255.9
-45°	8243.0	8979.6	9728.0	10520.0	11304.8	12086.4	12864.3	13631.2	14399.5	15120.8	15708.7
-47.5°	7589.0	8253.8	8933.2	9614.1	10317.4	11030.9	11710.9	12374.7	13053.4	13698.0	14183.7
-50°	6929.0	7544.5	8158.6	8758.5	9380.3	10007.8	10627.4	11211.7	11780.2	12328.4	12708.1
-52.5°	6264.3	6833.4	7396.3	7938.8	8478.2	9013.1	9538.1	10056.4	10554.6	11024.4	11325.5
-55°	5633.0	6140.6	6635.5	7109.3	7585.4	8055.2	8518.1	8971.6	9401.6	9805.5	10037.7
-57.5°	5039.3	5481.4	5914.7	6322.7	6721.2	7108.4	7517.5	7929.6	8316.7	8663.9	8851.0
-60°	4460.8	4859.0	5230.9	5571.9	5913.6	6253.7	6598.4	6938.7	7270.1	7558.4	7719.5
-62.5°	3891.8	4232.1	4548.6	4842.1	5124.3	5405.1	5704.2	5991.2	6264.2	6486.7	6623.3
-65°	3393.3	3681.7	3918.6	4152.3	4384.2	4631.1	4879.5	5116.4	5340.7	5515.0	5630.0
-67.5°	2908.7	3145.8	3343.1	3536.9	3731.0	3927.3	4127.4	4321.2	4507.3	4648.2	4748.2
-70°	2447.9	2627.1	2781.6	2939.4	3100.2	3260.7	3421.4	3576.2	3723.9	3831.3	3911.7
-72.5°	2002.2	2140.7	2261.0	2383.5	2504.4	2628.7	2753.2	2872.8	2986.7	3063.6	3120.0
-75°	1564.9	1665.4	1761.8	1855.3	1945.4	2037.9	2129.5	2217.0	2299.8	2358.1	2404.5
-77.5°	1178.2	1249.6	1312.4	1374.1	1434.1	1498.3	1561.1	1620.4	1675.7	1716.3	1750.4
-80°	825.3	871.4	911.5	949.3	984.6	1024.4	1063.3	1100.2	1134.6	1158.3	1177.1
-82.5°	512.2	539.2	563.4	585.6	605.8	626.6	646.0	663.5	679.2	697.7	714.9
-85°	265.7	276.9	287.1	296.6	305.4	313.8	321.5	328.4	334.4	337.7	340.1
-87.5°	103.3	105.9	108.2	110.4	112.4	115.1	117.6	120.0	122.2	124.3	126.1
-90°	5.9	5.4	4.9	4.4	3.9	3.9	3.9	3.9	3.9	3.9	3.9



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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°	25.0	25.5	25.5	25.5	25.5	25.5	25.0	24.6	24.1	23.6	23.1
87.5°	13.2	11.8	10.8	9.8	10.8	11.8	13.2	14.6	15.9	17.2	14.7
85°	24.4	21.5	19.6	17.7	19.6	21.5	24.4	27.2	29.8	32.3	29.9
82.5°	26.5	25.5	25.5	25.5	25.5	25.5	26.5	27.5	28.7	30.0	31.5
80°	32.2	31.3	32.4	33.4	32.4	31.3	32.2	33.1	33.9	34.9	38.2
77.5°	34.4	33.4	33.4	33.4	33.4	33.4	34.4	35.3	36.2	37.7	43.2
75°	33.5	33.4	32.4	31.4	32.4	33.4	33.5	33.6	33.8	35.4	41.8
72.5°	28.4	27.7	27.5	27.5	27.5	27.7	28.4	29.1	29.8	31.6	36.4
70°	26.5	27.4	26.6	25.5	26.6	27.4	26.5	25.7	25.2	26.1	29.4
67.5°	22.0	21.8	21.6	21.6	21.6	21.8	22.0	22.1	22.2	22.7	24.2
65°	18.6	18.0	17.7	17.7	17.7	18.0	18.6	19.3	19.9	20.6	21.4
62.5°	16.6	15.9	15.7	15.7	15.7	15.9	16.6	17.3	18.0	19.0	20.0
60°	18.8	17.9	16.8	15.7	16.8	17.9	18.8	19.6	20.2	20.5	20.8
57.5°	20.2	19.7	19.6	19.6	19.6	19.7	20.2	20.8	21.5	22.4	23.0
55°	22.2	21.7	21.6	21.6	21.6	21.7	22.2	22.5	22.9	23.7	24.5
52.5°	26.6	25.7	24.7	23.6	24.7	25.7	26.6	27.1	27.5	28.3	28.1
50°	42.0	40.0	39.0	39.3	39.0	40.0	42.0	42.9	43.1	42.8	40.3
47.5°	77.6	77.5	77.2	76.6	77.2	77.5	77.6	76.1	76.3	75.6	69.7
45°	132.0	126.7	121.7	119.9	121.7	126.7	132.0	132.6	135.0	133.4	125.4
42.5°	232.0	230.8	226.7	222.0	226.7	230.8	232.0	227.5	234.3	228.0	214.1
40°	403.2	397.8	388.3	391.0	388.3	397.8	403.2	398.6	415.9	393.8	395.7
37.5°	839.7	799.4	738.3	738.8	738.3	799.4	839.7	866.2	880.3	718.8	855.1
35°	1965.4	1998.4	1959.4	1958.9	1959.4	1998.4	1965.4	1977.4	1980.9	1848.6	1949.1
32.5°	3761.2	3706.6	3485.0	3369.6	3485.0	3706.6	3761.2	3879.5	3788.2	3698.9	3720.7
30°	7085.7	7120.9	6788.8	6796.2	6788.8	7120.9	7085.7	7093.7	6649.5	6693.5	6428.3
27.5°	12124.7	12394.4	12323.5	12205.2	12323.5	12394.4	12124.7	11877.0	11263.0	11007.5	10355.8
25°	18130.8	18334.0	18197.9	18115.2	18197.9	18334.0	18130.8	17643.9	16901.4	16170.7	15238.4
22.5°	25066.1	25349.0	25278.0	24919.3	25278.0	25349.0	25066.1	24251.1	23411.8	22038.8	20795.7
20°	32743.7	33228.3	33509.8	33328.5	33509.8	33228.3	32743.7	31641.4	30302.8	28530.7	26626.6
17.5°	40244.6	40869.5	41348.7	41509.8	41348.7	40869.5	40244.6	38813.5	36798.5	34539.0	32116.7
15°	46552.0	47445.6	48075.0	48298.2	48075.0	47445.6	46552.0	44871.9	42383.1	39725.7	36733.4
12.5°	51078.4	52241.5	52979.6	53201.3	52979.6	52241.5	51078.4	49110.6	46775.5	43653.7	40479.0
10°	53567.5	55033.5	55873.7	56224.1	55873.7	55033.5	53567.5	51817.3	49308.5	46295.0	42735.3
7.5°	54958.2	56282.4	57076.2	57193.7	57076.2	56282.4	54958.2	52906.8	50602.9	47499.4	43916.3
5°	55409.4	56612.5	57267.7	57328.3	57267.7	56612.5	55409.4	53429.1	51032.1	47971.0	44219.3
2.5°	55607.2	56623.8	57107.1	56983.5	57107.1	56623.8	55607.2	53701.2	51368.0	48415.1	44787.1
0°	55505.9	56414.6	56927.5	57004.1	56927.5	56414.6	55505.9	53929.2	51567.5	48691.1	44995.4
-2.5°	54681.7	55358.4	55722.1	55488.3	55722.1	55358.4	54681.7	53248.5	50958.9	48045.3	44544.7
-5°	52802.4	53289.2	53441.2	53526.4	53441.2	53289.2	52802.4	51632.8	49526.6	46613.8	43323.2
-7.5°	50086.2	50483.5	50633.4	50528.2	50633.4	50483.5	50086.2	48884.1	46878.0	44306.3	41030.9
-10°	46505.9	46870.0	46997.3	46924.8	46997.3	46870.0	46505.9	45439.7	43508.6	41093.8	38207.9
-12.5°	42881.9	43313.4	43412.4	43418.6	43412.4	43313.4	42881.9	41833.6	40084.2	37911.9	35250.2
-15°	39319.3	39812.6	39963.4	40095.2	39963.4	39812.6	39319.3	38311.3	36769.0	34745.5	32348.4
-17.5°	35818.7	36308.7	36436.0	36263.9	36436.0	36308.7	35818.7	34851.6	33489.1	31672.1	29484.6
-20°	32941.2	33195.2	33466.3	33464.1	33466.3	33195.2	32941.2	32178.2	30823.4	29169.0	27225.0



REPORT NUMBER: P731638 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	30564.6	30984.6	31215.5	31379.5	31215.5	30984.6	30564.6	29928.0	28639.4	27067.8	25308.4
-25°	28335.7	28692.3	28835.8	28945.1	28835.8	28692.3	28335.7	27661.4	26558.9	25135.7	23466.8
-27.5°	26618.6	26980.6	27185.2	27306.5	27185.2	26980.6	26618.6	25940.1	24978.2	23609.6	22107.8
-30°	25249.2	25604.8	25848.7	26001.9	25848.7	25604.8	25249.2	24495.8	23571.1	22330.3	20952.4
-32.5°	23773.7	24145.6	24399.8	24557.8	24399.8	24145.6	23773.7	23056.1	22150.8	21065.1	19788.5
-35°	22240.3	22612.4	22886.7	23015.4	22886.7	22612.4	22240.3	21623.2	20739.5	19748.2	18605.9
-37.5°	20750.7	21097.9	21340.4	21435.7	21340.4	21097.9	20750.7	20217.0	19374.4	18477.1	17428.0
-40°	19197.8	19525.5	19750.7	19838.4	19750.7	19525.5	19197.8	18764.4	17979.2	17130.5	16209.6
-42.5°	17632.0	17937.7	18145.7	18233.1	18145.7	17937.7	17632.0	17255.9	16559.9	15785.8	14965.1
-45°	16045.9	16317.8	16493.9	16561.1	16493.9	16317.8	16045.9	15708.7	15120.8	14399.5	13631.2
-47.5°	14484.7	14730.0	14881.3	14930.3	14881.3	14730.0	14484.7	14183.7	13698.0	13053.4	12374.7
-50°	12960.8	13161.7	13300.2	13378.2	13300.2	13161.7	12960.8	12708.1	12328.4	11780.2	11211.7
-52.5°	11551.2	11733.6	11842.3	11884.9	11842.3	11733.6	11551.2	11325.5	11024.4	10554.6	10056.4
-55°	10230.1	10387.9	10480.3	10517.5	10480.3	10387.9	10230.1	10037.7	9805.5	9401.6	8971.6
-57.5°	9010.0	9139.4	9226.5	9275.7	9226.5	9139.4	9010.0	8851.0	8663.9	8316.7	7929.6
-60°	7853.3	7959.3	8032.4	8075.2	8032.4	7959.3	7853.3	7719.5	7558.4	7270.1	6938.7
-62.5°	6736.6	6826.7	6885.9	6919.9	6885.9	6826.7	6736.6	6623.3	6486.7	6264.2	5991.2
-65°	5727.1	5806.0	5844.2	5859.0	5844.2	5806.0	5727.1	5630.0	5515.0	5340.7	5116.4
-67.5°	4833.9	4905.0	4930.8	4935.5	4930.8	4905.0	4833.9	4748.2	4648.2	4507.3	4321.2
-70°	3981.3	4039.3	4058.8	4061.2	4058.8	4039.3	3981.3	3911.7	3831.3	3723.9	3576.2
-72.5°	3166.5	3203.0	3231.2	3249.7	3231.2	3203.0	3166.5	3120.0	3063.6	2986.7	2872.8
-75°	2443.4	2474.7	2488.3	2493.3	2488.3	2474.7	2443.4	2404.5	2358.1	2299.8	2217.0
-77.5°	1779.5	1803.4	1808.7	1807.6	1808.7	1803.4	1779.5	1750.4	1716.3	1675.7	1620.4
-80°	1192.1	1203.1	1210.4	1214.2	1210.4	1203.1	1192.1	1177.1	1158.3	1134.6	1100.2
-82.5°	730.3	743.8	729.9	713.2	729.9	743.8	730.3	714.9	697.7	679.2	663.5
-85°	341.6	342.2	343.4	343.8	343.4	342.2	341.6	340.1	337.7	334.4	328.4
-87.5°	127.8	129.3	128.6	127.7	128.6	129.3	127.8	126.1	124.3	122.2	120.0
-90°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	22.6	22.1	21.6	21.1	20.6	20.1	19.6	18.6	17.7	16.7	15.7
87.5°	12.2	9.8	7.5	8.4	9.2	10.0	10.7	10.2	9.6	9.1	8.7
85°	27.4	24.8	22.2	22.1	22.1	21.9	21.8	21.4	20.7	19.8	18.8
82.5°	32.8	33.6	34.2	37.0	39.1	40.5	41.1	40.9	40.1	38.6	36.3
80°	41.2	44.0	46.8	52.6	57.6	61.9	65.2	66.7	67.4	67.2	65.0
77.5°	48.3	53.0	58.2	66.6	74.4	81.6	87.7	91.2	92.9	93.8	91.1
75°	48.2	54.6	62.7	74.4	85.5	95.8	103.6	108.9	113.3	116.6	113.6
72.5°	41.8	47.8	57.6	72.4	87.9	101.1	111.8	120.7	128.6	135.3	130.7
70°	33.2	37.5	46.2	59.4	73.7	88.9	105.1	121.3	137.2	147.7	140.2
67.5°	26.2	28.7	35.8	46.3	58.6	72.4	88.8	107.5	125.5	142.4	139.0
65°	22.3	23.1	27.5	35.0	44.4	55.6	69.4	85.7	104.9	124.1	124.8
62.5°	20.9	21.6	24.2	28.3	33.6	40.7	51.2	65.5	82.0	95.2	99.9
60°	21.2	21.9	23.7	25.7	28.0	31.6	39.8	49.5	60.8	71.9	77.6
57.5°	23.5	23.9	24.7	25.8	27.2	30.5	34.7	39.2	48.4	54.9	59.8
55°	25.2	25.8	26.4	27.0	27.7	30.6	33.8	37.7	41.9	43.8	49.9
52.5°	27.3	28.9	29.7	29.3	30.3	32.4	33.8	37.2	40.6	43.0	44.5
50°	38.7	40.6	39.2	35.8	39.1	38.6	38.3	39.0	43.0	45.2	45.2
47.5°	69.2	69.8	63.2	58.9	62.5	57.8	54.2	51.1	57.2	51.5	50.9
45°	130.3	127.4	112.2	113.8	109.6	102.2	86.5	94.7	87.6	78.5	60.3
42.5°	228.4	223.7	208.0	216.9	201.5	181.9	173.3	182.1	152.5	123.9	130.6
40°	414.6	361.7	392.2	406.1	366.2	308.4	388.0	333.4	284.1	204.2	268.8
37.5°	865.4	705.5	848.9	853.0	739.1	679.9	765.9	690.5	482.2	509.9	518.9
35°	1857.3	1768.6	1736.5	1674.8	1461.7	1532.8	1373.6	1215.2	1043.6	987.0	893.2
32.5°	3363.4	3457.7	3235.0	2961.6	2935.6	2789.7	2459.6	1981.3	1983.2	1788.0	1461.0
30°	5979.9	5853.3	5454.1	5000.7	4991.3	4618.9	3883.1	3563.2	3267.8	2824.5	2201.4
27.5°	9913.8	9037.8	8408.4	8055.0	7531.7	6918.4	6195.4	5447.6	4816.6	4141.1	3302.4
25°	14550.9	13460.6	12333.3	11585.4	10674.6	9706.4	8808.2	7759.5	6703.8	5644.3	4581.6
22.5°	19525.6	18201.3	16825.8	15434.9	14072.5	12830.1	11638.7	10247.8	8638.2	7150.8	5921.8
20°	24635.1	22826.2	21167.6	19237.8	17391.3	15879.2	14532.4	12617.0	10468.0	8660.2	7226.8
17.5°	29490.3	27184.3	24847.8	22451.2	20453.7	18815.5	16731.5	14491.9	12176.9	10079.8	8473.4
15°	33859.5	30687.6	27905.5	25380.9	22969.8	20595.4	18410.7	16195.9	13774.3	11506.4	9612.0
12.5°	36884.9	33560.6	30573.7	27389.3	24577.3	22092.4	19874.5	17653.7	15111.6	12451.3	10247.5
10°	39102.3	35499.5	32012.3	28765.0	25937.7	23418.5	20954.8	18430.7	15683.0	13017.6	10775.5
7.5°	40123.2	36524.2	33094.1	29755.5	26803.0	24167.3	21550.7	18923.2	16091.5	13409.9	11199.6
5°	40599.1	37151.3	33744.1	30265.5	27301.2	24696.0	22035.8	19297.3	16340.4	13646.0	11524.6
2.5°	41034.3	37489.4	34067.0	30482.1	27596.0	25054.7	22459.2	19675.1	16649.8	13892.1	11732.6
0°	41323.2	37835.7	34371.8	30623.0	27762.3	25276.9	22826.8	20011.3	16918.7	14063.9	11857.4
-2.5°	40826.1	37318.9	33911.5	30336.3	27412.2	24963.2	22560.9	19871.9	16866.5	14063.8	11862.5
-5°	39741.3	36280.8	32943.3	29530.6	26613.5	24181.7	21867.7	19355.5	16560.7	13910.5	11791.3
-7.5°	37710.7	34618.0	31588.8	28413.1	25541.9	23119.5	20854.1	18464.9	15888.0	13404.6	11371.2
-10°	35121.4	32279.6	29450.3	26638.4	24113.1	21883.5	19727.5	17492.3	15108.0	12798.7	10883.3
-12.5°	32546.7	29836.8	27142.0	24560.6	22358.0	20305.1	18389.8	16423.3	14235.7	12095.8	10334.8
-15°	29766.6	27322.1	24944.2	22644.1	20513.6	18638.7	16945.0	15189.5	13248.6	11334.5	9731.2
-17.5°	27349.5	24918.4	22737.9	20879.1	18942.1	17036.5	15519.8	13982.0	12326.8	10673.8	9214.1
-20°	25212.1	23150.8	21030.9	19255.3	17600.2	15943.2	14311.6	12850.6	11471.6	10073.9	8767.3



REPORT NUMBER: P731638 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	23478.3	21612.8	19742.0	17936.9	16371.5	14957.5	13524.0	12071.6	10673.1	9459.4	8335.0
-25°	21937.2	20175.7	18534.7	17010.5	15421.0	14020.9	12807.7	11521.0	10187.2	8916.1	7935.7
-27.5°	20647.9	19043.5	17564.4	16185.8	14756.2	13382.2	12181.6	10991.2	9753.4	8611.4	7605.0
-30°	19541.3	18146.8	16778.4	15480.1	14172.3	12880.2	11636.5	10506.9	9358.5	8281.9	7329.6
-32.5°	18491.2	17197.7	15951.2	14767.5	13550.4	12338.6	11171.8	10017.2	8912.4	7947.7	7064.3
-35°	17391.5	16191.0	15076.1	13979.6	12886.6	11760.6	10643.6	9512.4	8482.4	7577.3	6757.3
-37.5°	16312.3	15200.4	14169.4	13152.9	12158.0	11130.4	10054.2	9023.2	8049.0	7186.5	6410.2
-40°	15210.6	14204.8	13239.4	12307.6	11378.9	10448.2	9467.5	8510.0	7617.3	6757.2	6028.5
-42.5°	14056.7	13158.2	12287.6	11428.0	10563.5	9716.3	8858.0	7993.3	7155.1	6355.0	5623.7
-45°	12864.3	12086.4	11304.8	10520.0	9728.0	8979.6	8243.0	7451.4	6672.9	5928.5	5206.2
-47.5°	11710.9	11030.9	10317.4	9614.1	8933.2	8253.8	7589.0	6886.2	6172.2	5475.1	4833.4
-50°	10627.4	10007.8	9380.3	8758.5	8158.6	7544.5	6929.0	6310.7	5653.7	5030.9	4445.1
-52.5°	9538.1	9013.1	8478.2	7938.8	7396.3	6833.4	6264.3	5713.6	5133.8	4588.0	4069.6
-55°	8518.1	8055.2	7585.4	7109.3	6635.5	6140.6	5633.0	5132.4	4644.8	4150.0	3704.4
-57.5°	7517.5	7108.4	6721.2	6322.7	5914.7	5481.4	5039.3	4592.2	4161.9	3739.0	3336.3
-60°	6598.4	6253.7	5913.6	5571.9	5230.9	4859.0	4460.8	4068.4	3683.8	3332.4	2990.6
-62.5°	5704.2	5405.1	5124.3	4842.1	4548.6	4232.1	3891.8	3572.9	3252.0	2936.4	2659.4
-65°	4879.5	4631.1	4384.2	4152.3	3918.6	3681.7	3393.3	3111.2	2841.0	2581.0	2338.7
-67.5°	4127.4	3927.3	3731.0	3536.9	3343.1	3145.8	2908.7	2669.2	2447.3	2236.6	2030.7
-70°	3421.4	3260.7	3100.2	2939.4	2781.6	2627.1	2447.9	2259.0	2074.6	1895.4	1715.9
-72.5°	2753.2	2628.7	2504.4	2383.5	2261.0	2140.7	2002.2	1847.5	1694.3	1543.4	1397.7
-75°	2129.5	2037.9	1945.4	1855.3	1761.8	1665.4	1564.9	1449.6	1333.6	1217.3	1101.9
-77.5°	1561.1	1498.3	1434.1	1374.1	1312.4	1249.6	1178.2	1086.3	999.5	913.7	830.2
-80°	1063.3	1024.4	984.6	949.3	911.5	871.4	825.3	760.0	695.1	635.0	580.6
-82.5°	646.0	626.6	605.8	585.6	563.4	539.2	512.2	474.1	436.6	399.9	364.1
-85°	321.5	313.8	305.4	296.6	287.1	276.9	265.7	249.5	232.8	215.5	197.7
-87.5°	117.6	115.1	112.4	110.4	108.2	105.9	103.3	97.3	91.4	85.5	79.6
-90°	3.9	3.9	3.9	4.4	4.9	5.4	5.9	5.9	5.9	5.9	5.9



REPORT NUMBER: P731638 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	15.2	14.8	14.3	13.8	13.8	13.8	13.8	13.8	13.3	12.8	12.3
87.5°	10.2	11.6	12.8	13.8	13.0	12.3	11.6	10.9	11.3	11.6	11.8
85°	19.2	19.8	20.6	21.6	20.3	18.6	17.2	15.9	16.2	16.3	16.3
82.5°	32.8	31.1	30.2	29.7	29.4	28.5	26.9	24.5	22.1	21.1	20.7
80°	58.3	52.1	46.6	42.0	39.4	38.5	37.4	34.8	29.5	25.9	24.0
77.5°	81.8	73.2	65.5	57.8	50.9	46.3	43.9	42.8	36.6	30.5	26.5
75°	103.1	92.0	81.5	71.3	61.4	53.3	47.7	44.1	39.3	34.5	28.8
72.5°	117.5	105.5	94.7	83.5	70.7	59.9	51.4	45.3	40.3	35.4	30.5
70°	127.5	115.8	103.5	90.8	78.1	65.8	55.0	47.6	41.4	36.3	31.3
67.5°	133.6	120.4	108.4	96.8	83.7	70.6	58.1	50.2	43.7	37.1	32.0
65°	120.2	115.9	111.0	98.6	86.9	75.0	61.8	53.0	45.9	39.1	32.6
62.5°	102.8	102.8	99.9	96.9	87.7	76.3	65.5	56.4	48.1	41.0	33.9
60°	81.4	85.0	87.9	87.1	84.0	76.2	66.8	59.6	50.8	42.7	35.5
57.5°	65.7	68.3	73.8	77.2	76.3	72.6	67.5	61.2	53.1	44.6	37.0
55°	53.7	58.3	62.9	66.9	68.7	66.6	67.2	62.1	55.0	46.3	38.8
52.5°	47.6	52.1	56.7	59.5	61.5	62.5	65.5	63.1	56.0	47.8	40.7
50°	45.8	50.6	54.0	56.1	56.3	61.0	64.9	63.5	57.0	48.9	42.8
47.5°	52.7	56.7	55.4	55.2	55.1	61.1	65.7	64.6	58.1	49.9	45.2
45°	78.4	71.9	64.5	59.0	59.1	65.4	67.8	66.6	60.1	52.7	47.7
42.5°	124.2	111.6	85.4	64.5	75.7	72.5	71.4	69.9	62.9	56.0	50.5
40°	251.2	175.8	121.5	112.6	104.0	82.0	79.3	74.3	66.6	60.2	53.6
37.5°	428.3	310.3	196.9	201.0	154.9	116.7	89.0	79.8	73.1	65.5	57.1
35°	735.5	517.9	410.3	365.2	262.4	159.5	100.2	87.5	80.9	71.2	60.7
32.5°	1115.4	909.9	803.2	615.2	396.8	210.2	131.1	102.0	89.7	77.1	64.6
30°	1757.3	1587.3	1287.5	922.0	586.5	334.9	185.3	118.7	99.3	83.2	68.9
27.5°	2725.4	2386.2	1877.2	1365.2	879.1	486.4	265.3	137.3	109.8	90.1	73.8
25°	3779.6	3291.6	2645.1	1892.2	1208.7	727.2	363.2	159.9	123.7	98.5	78.8
22.5°	4944.1	4227.4	3492.6	2468.4	1574.5	1006.8	518.9	234.6	140.1	107.2	83.8
20°	6060.0	5180.0	4340.2	2920.5	1965.0	1332.1	736.0	318.3	157.1	116.2	88.8
17.5°	7143.6	5962.1	4798.3	3413.1	2348.0	1639.3	970.6	409.0	174.7	125.2	93.6
15°	7882.6	6484.5	5227.1	3853.0	2690.2	1928.2	1217.4	504.4	192.6	134.3	101.1
12.5°	8448.8	6957.9	5636.6	4240.5	2993.3	2198.7	1470.4	602.0	210.5	148.4	111.8
10°	8935.1	7381.0	6020.6	4576.2	3259.8	2450.7	1723.4	694.1	238.1	166.5	122.5
7.5°	9343.3	7753.3	6372.8	4861.3	3477.6	2617.0	1878.5	769.0	266.6	184.6	133.1
5°	9661.9	8029.0	6651.3	5055.5	3590.8	2691.8	1995.8	834.4	294.3	202.4	143.5
2.5°	9851.5	8178.9	6861.8	5200.0	3681.2	2746.9	2087.1	889.4	320.9	219.5	153.5
0°	9975.2	8275.6	7020.1	5299.0	3746.8	2784.1	2151.4	933.3	345.8	235.8	163.1
-2.5°	10022.3	8290.0	7042.9	5425.3	3880.3	2899.2	2214.0	1055.1	462.5	315.8	214.4
-5°	9996.3	8260.4	7019.6	5504.9	3985.7	2995.0	2253.3	1164.9	575.6	393.5	264.4
-7.5°	9683.8	8086.1	6898.3	5516.9	4061.8	3068.3	2273.7	1262.8	683.2	467.6	312.3
-10°	9266.6	7806.0	6646.5	5350.8	4053.7	3112.5	2284.5	1348.8	783.9	537.1	357.5
-12.5°	8803.9	7489.3	6373.1	5169.5	4017.0	3136.4	2314.5	1429.0	876.0	600.8	399.1
-15°	8303.1	7138.5	6085.6	4982.4	3965.9	3148.5	2330.8	1497.7	959.1	661.2	436.6
-17.5°	7810.4	6756.2	5791.2	4798.2	3903.7	3150.7	2335.3	1550.8	1032.7	719.4	476.6
-20°	7542.6	6478.3	5501.7	4624.7	3833.3	3144.9	2330.2	1587.9	1095.7	770.8	517.6



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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°	7275.3	6296.3	5362.8	4501.7	3773.9	3132.6	2317.4	1608.3	1147.4	814.7	553.2
-25°	6994.3	6104.9	5228.2	4414.6	3734.1	3087.6	2310.9	1611.8	1187.1	850.7	583.1
-27.5°	6745.7	5911.5	5072.6	4293.8	3656.1	3040.0	2300.8	1650.0	1218.3	878.3	607.0
-30°	6512.8	5716.2	4907.9	4152.3	3550.0	2925.2	2270.4	1674.1	1246.2	901.9	624.5
-32.5°	6272.2	5502.0	4709.6	4014.0	3409.1	2794.8	2185.0	1681.4	1262.7	919.7	639.4
-35°	5991.8	5242.3	4478.1	3842.6	3251.0	2660.2	2089.4	1671.6	1267.7	928.5	648.8
-37.5°	5673.3	4938.4	4259.4	3649.5	3081.8	2515.7	2019.8	1622.1	1261.0	928.1	651.4
-40°	5321.2	4634.6	4008.5	3453.4	2910.0	2361.6	1936.9	1570.0	1249.3	918.6	646.9
-42.5°	4950.8	4338.0	3769.0	3245.5	2732.0	2254.4	1844.2	1508.1	1206.8	904.1	635.4
-45°	4604.5	4036.2	3520.8	3034.4	2553.9	2134.0	1764.2	1438.1	1153.2	882.4	619.6
-47.5°	4247.3	3744.8	3269.5	2811.2	2403.0	2008.1	1673.2	1368.6	1092.3	850.9	601.4
-50°	3910.4	3451.6	3016.5	2610.4	2230.8	1894.0	1574.8	1290.3	1031.2	798.3	577.1
-52.5°	3593.4	3168.4	2777.4	2408.7	2078.2	1768.2	1475.9	1204.3	963.2	747.0	547.0
-55°	3278.6	2898.6	2543.9	2222.2	1922.5	1640.4	1367.4	1117.9	888.6	693.3	511.9
-57.5°	2975.7	2631.3	2329.7	2040.6	1763.1	1502.9	1256.0	1023.9	816.1	634.5	478.1
-60°	2671.1	2392.1	2120.3	1851.7	1596.5	1360.7	1139.6	926.5	740.0	572.9	435.6
-62.5°	2395.1	2144.9	1899.0	1653.2	1426.9	1216.1	1017.5	830.0	658.2	515.5	388.3
-65°	2112.3	1888.0	1667.1	1456.5	1255.2	1067.5	896.5	727.3	582.5	454.5	341.7
-67.5°	1826.0	1630.2	1442.7	1255.8	1084.9	923.5	769.0	631.5	505.6	390.2	301.5
-70°	1540.3	1371.0	1217.5	1066.5	917.4	776.7	654.2	536.6	425.1	338.0	259.3
-72.5°	1260.6	1128.6	1002.1	875.4	756.2	643.7	538.4	442.1	359.6	283.9	215.3
-75°	990.5	891.4	796.2	699.4	600.0	507.9	433.2	362.2	292.1	227.9	177.1
-77.5°	750.2	671.9	595.4	528.0	459.6	395.5	336.1	279.9	226.0	180.6	140.2
-80°	528.5	477.6	428.1	379.2	328.1	280.9	243.2	206.7	168.0	133.1	102.4
-82.5°	328.7	299.7	272.7	245.5	216.1	188.0	161.2	135.6	108.6	84.7	70.4
-85°	180.4	163.0	145.6	128.2	110.7	94.1	86.2	78.4	68.8	59.7	51.2
-87.5°	75.3	70.9	66.5	62.2	58.1	54.0	50.1	46.1	41.1	36.3	31.8
-90°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.4	6.9	7.4



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	11.8	11.3	10.8	10.3	9.8	8.9	7.9
87.5°	12.0	11.4	10.9	10.6	10.5	9.1	7.9
85°	16.0	14.3	12.9	11.9	11.2	9.4	7.9
82.5°	20.0	17.2	15.0	13.2	11.8	9.7	7.9
80°	23.6	20.1	17.0	14.4	12.5	10.0	7.9
77.5°	24.5	22.1	18.9	15.6	13.2	10.3	7.9
75°	25.2	22.5	20.5	16.8	13.8	10.6	7.9
72.5°	26.0	22.8	20.5	18.0	14.4	10.9	7.9
70°	26.6	23.1	20.5	18.9	15.0	11.1	7.9
67.5°	27.4	23.3	20.5	18.7	15.6	11.4	7.9
65°	28.2	23.7	20.4	18.5	16.1	11.6	7.9
62.5°	29.0	24.5	20.2	18.3	16.7	11.9	7.9
60°	29.8	25.3	20.0	18.0	17.2	12.1	7.9
57.5°	31.3	26.1	20.7	17.8	17.0	12.3	7.9
55°	32.8	26.9	21.4	17.4	16.9	12.5	7.9
52.5°	34.4	27.7	22.1	17.1	16.7	12.7	7.9
50°	35.8	29.0	22.7	16.7	16.6	12.9	7.9
47.5°	37.4	30.2	23.4	16.5	16.5	13.1	7.9
45°	39.6	31.4	24.0	17.0	16.4	13.2	7.9
42.5°	41.9	32.5	24.6	17.4	16.4	13.4	7.9
40°	44.3	33.6	25.3	18.2	16.4	13.5	7.9
37.5°	46.7	34.6	26.1	19.1	16.4	13.6	7.9
35°	49.3	36.2	26.8	20.1	16.4	13.7	7.9
32.5°	52.0	38.1	27.5	21.0	16.4	13.8	7.9
30°	55.0	40.0	28.1	22.1	16.4	13.9	7.9
27.5°	58.1	41.9	30.1	23.1	16.5	14.0	7.9
25°	61.2	43.7	32.4	24.1	16.6	14.0	7.9
22.5°	64.4	46.4	34.8	25.2	16.7	14.1	7.9
20°	67.5	51.4	37.3	26.2	16.8	14.1	7.9
17.5°	73.3	56.5	39.8	27.3	16.9	14.1	7.9
15°	80.7	61.6	42.4	28.3	17.0	14.1	7.9
12.5°	88.0	66.7	45.0	29.3	17.1	14.1	7.9
10°	95.2	71.8	47.6	30.2	17.3	14.0	7.9
7.5°	102.2	76.7	50.1	31.1	17.4	14.0	7.9
5°	109.0	81.5	52.5	31.9	17.5	13.9	7.9
2.5°	115.6	86.1	54.8	32.7	17.6	13.9	7.9
0°	121.8	90.4	57.0	33.4	17.7	13.8	7.9
-2.5°	152.4	108.1	66.2	37.5	19.1	14.0	7.9
-5°	182.1	125.2	75.2	41.4	20.4	14.3	7.9
-7.5°	210.8	141.6	83.8	45.2	21.7	14.5	7.9
-10°	237.9	157.0	91.8	48.8	22.9	14.7	7.9
-12.5°	263.2	171.3	99.3	52.1	24.1	14.9	7.9
-15°	286.2	184.2	106.1	55.1	25.2	15.1	7.9
-17.5°	306.7	195.6	112.1	57.7	26.3	15.2	7.9
-20°	329.1	205.3	117.2	60.0	27.2	15.3	7.9



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	355.8	213.2	121.4	61.9	28.0	15.4	7.9
-25°	378.6	225.2	124.6	63.4	28.7	15.5	7.9
-27.5°	397.1	237.3	126.7	64.4	29.3	15.6	7.9
-30°	411.2	246.8	128.2	64.9	29.7	15.6	7.9
-32.5°	420.5	253.4	133.0	64.9	30.0	15.6	7.9
-35°	427.2	257.1	136.1	64.3	30.2	15.6	7.9
-37.5°	430.4	258.8	137.6	63.3	30.3	15.5	7.9
-40°	429.2	259.8	137.2	61.7	30.1	15.4	7.9
-42.5°	423.4	257.9	136.5	60.3	29.9	15.3	7.9
-45°	413.2	253.2	135.7	59.6	29.5	15.2	7.9
-47.5°	398.5	245.6	133.4	58.0	28.9	15.0	7.9
-50°	383.9	235.3	129.6	57.5	28.2	14.8	7.9
-52.5°	366.0	222.2	124.4	56.9	27.3	14.6	7.9
-55°	344.4	211.2	117.8	55.7	26.3	14.4	7.9
-57.5°	318.9	199.0	109.8	53.8	25.2	14.1	7.9
-60°	291.0	184.7	100.8	51.4	23.9	13.8	7.9
-62.5°	267.7	168.4	94.5	48.3	23.1	13.5	7.9
-65°	241.7	150.4	87.2	44.8	22.1	13.1	7.9
-67.5°	213.4	133.6	79.0	40.7	21.1	12.8	7.9
-70°	182.8	118.5	69.9	36.2	20.0	12.4	7.9
-72.5°	157.2	102.1	60.1	33.1	18.9	12.0	7.9
-75°	131.2	84.7	49.6	30.3	17.7	11.6	7.9
-77.5°	103.7	66.3	42.8	27.2	16.4	11.1	7.9
-80°	75.2	53.3	36.8	24.0	15.2	10.7	7.9
-82.5°	58.5	43.1	30.5	20.7	13.9	10.2	7.9
-85°	43.1	32.6	24.0	17.3	12.5	9.8	7.9
-87.5°	27.5	22.0	17.4	13.8	11.2	9.3	7.9
-90°	7.9	8.4	8.9	9.3	9.8	8.9	7.9

(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

