

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: P731605 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-3S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731605 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-40-70-3S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

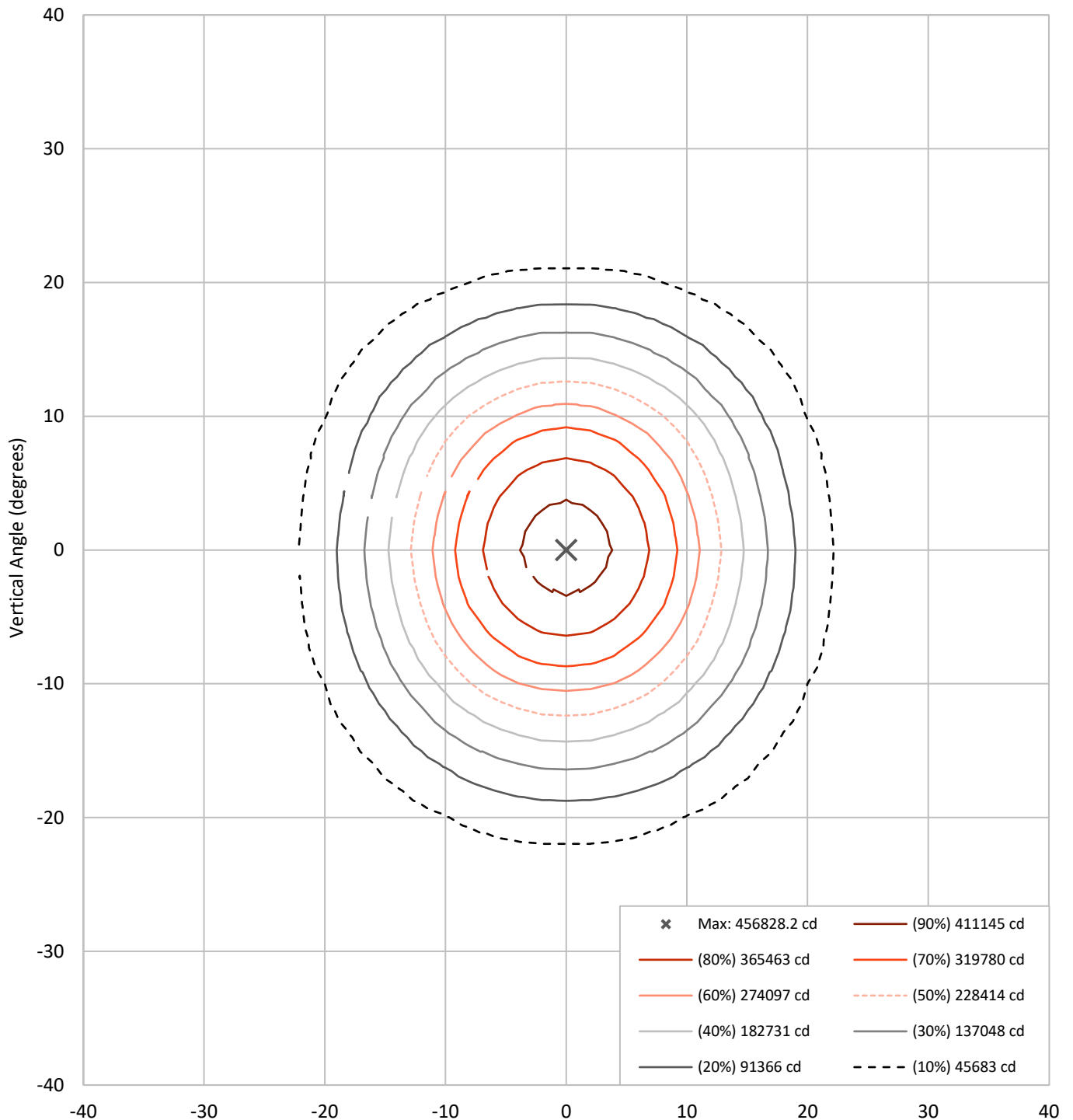
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	102635.7 lumens	Max Intensity:	456828.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	25.7°H x 24.9°V	Field Angle (10%):	44.2°H x 43°V
Beam Lumens:	49106.8 lumens	Field Lumens:	86047.4 lumens
Beam Efficiency:	47.8%	Field Efficiency:	83.8%

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





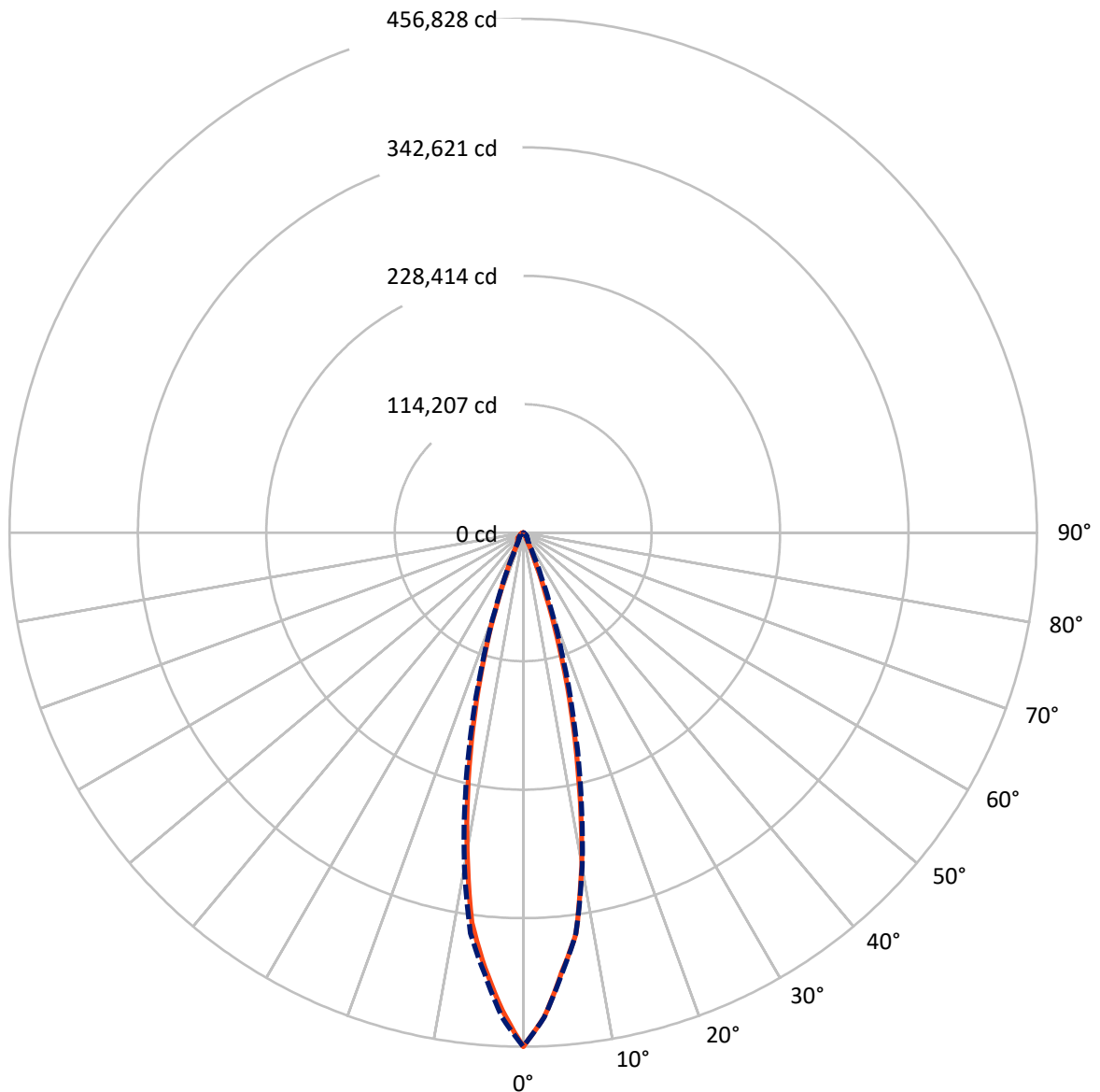
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Lumen Table

90	0.2	0.8	1.6	2.4	2.9	2.4	1.6	0.8	0.2									
80	0.2	0.8	1.6	2.4	2.9	2.4	1.6	0.8	0.2									
70	0.3	0.2	0.3	0.8	0.9	0.8	0.6	0.6	0.6	0.6	0.8	0.9	0.8	0.3	0.2	0.3		
60		0.5	1.0	1.3	1.1	1.1	1.5	1.8	1.8	1.5	1.1	1.1	1.3	1.0	0.5			
50	1.0	1.4	3.4	7.2	13.3	22.6	32.2	36.5	36.5	32.2	22.6	13.3	7.2	3.4	1.4	1.0		
40		3.5	10.9	22.5	42.3	70.2	84.8	99.5	99.5	84.8	70.2	42.3	22.5	10.9	3.5			
30	2.4	6.0	18.3	40.2	90.0	115.8	250.0	546.8	546.8	250.0	115.8	90.0	40.2	18.3	6.0	2.4		
20		7.9	24.1	65.3	129.2	312.3	1881.2	4547.9	4547.9	1881.2	312.3	129.2	65.3	24.1	7.9			
10	3.4	9.5	27.9	83.2	156.5	693.2	4569.0	10406.8	10406.8	4569.0	693.2	156.5	83.2	27.9	9.5	3.4		
0		10.5	30.7	88.1	173.3	714.5	4596.7	10298.8	10298.8	4596.7	714.5	173.3	88.1	30.7	10.5			
-10	3.8	10.6	31.7	85.0	172.7	383.0	1961.5	4590.3	4590.3	1961.5	383.0	172.7	85.0	31.7	10.6	3.8		
-20		9.8	30.2	67.3	155.4	234.6	406.6	773.2	773.2	406.6	234.6	155.4	67.3	30.2	9.8			
-30	3.2	8.3	25.9	53.8	107.4	187.7	231.7	257.1	257.1	231.7	187.7	107.4	53.8	25.9	8.3	3.2		
-40		6.4	19.7	41.7	68.0	100.3	147.1	183.2	183.2	147.1	100.3	68.0	41.7	19.7	6.4			
-50	2.6	4.3	12.8	27.3	45.7	62.3	75.6	83.9	83.9	75.6	62.3	45.7	27.3	12.8	4.3	2.6		
-60		3.1	6.8	14.1	23.8	32.8	41.4	46.7	46.7	41.4	32.8	23.8	14.1	6.8	3.1			
-70	1.9	11.2	26.0	42.4	52.0	42.4	26.0	11.2	1.9							1.9		
-80		11.2	26.0	42.4	52.0	42.4	26.0	11.2	1.9									
-90	1.9	11.2	26.0	42.4	52.0	42.4	26.0	11.2	1.9									

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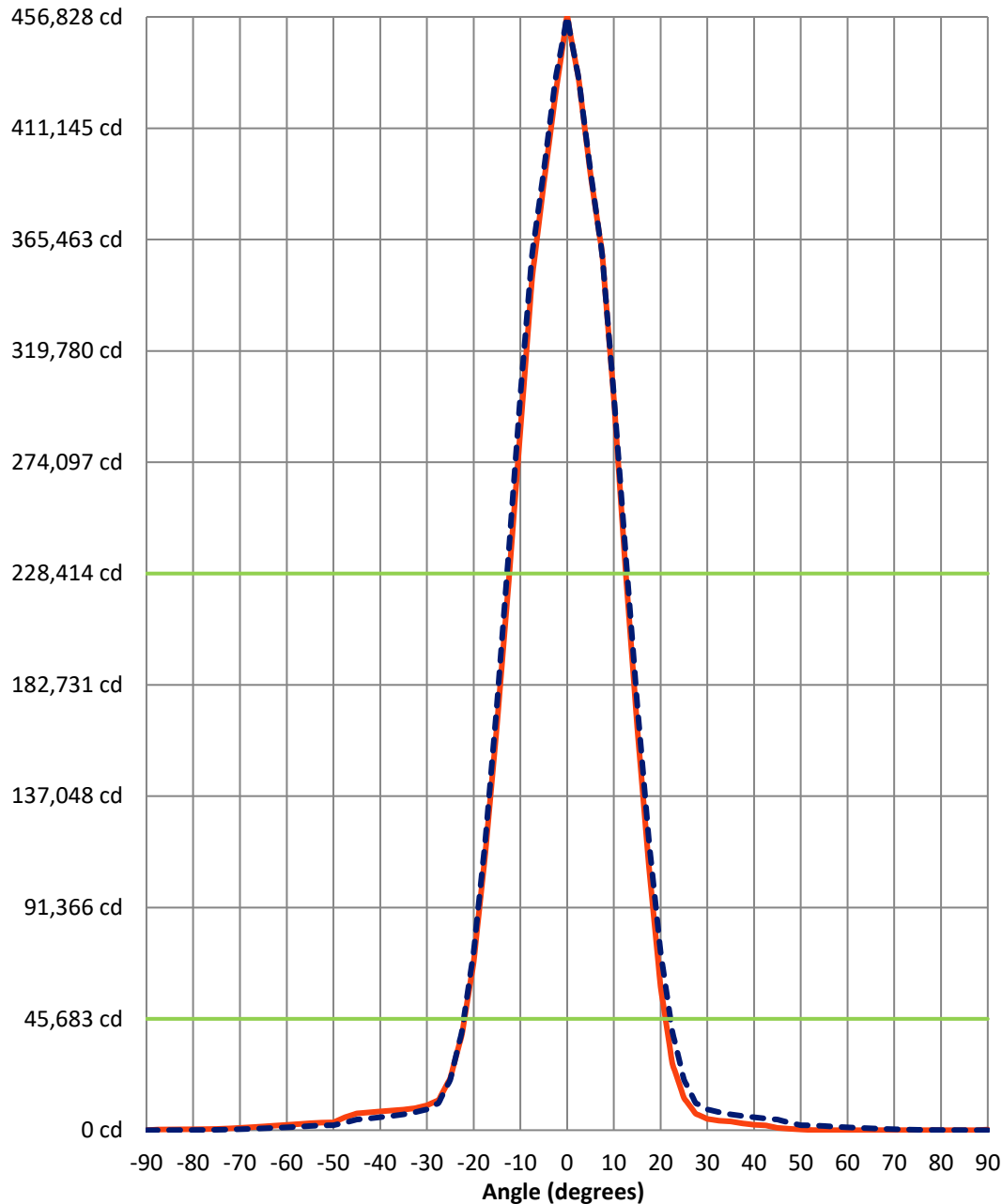
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 25.7°
 V Angle: 24.9°
 Lumens: 49106.8
 Efficiency: 47.8%

Field:
 H Angle: 44.2°
 V Angle: 43°
 Lumens: 86047.4
 Efficiency: 83.8%

Spill:
 Lumens: 16588.3
 Efficiency: 16.2%

— 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°	3.7	15.3	26.9	43.4	59.9	74.0	88.1	98.5	108.8	117.4	126.0
87.5°	3.7	4.0	3.9	4.0	4.1	4.1	4.0	3.6	3.3	3.1	3.0
85°	3.7	4.3	4.1	4.3	4.5	4.5	4.3	4.2	4.1	3.9	3.5
82.5°	3.7	4.6	4.3	4.6	4.9	4.9	4.7	4.7	4.9	4.5	4.1
80°	3.7	4.9	4.6	4.9	5.4	5.3	5.0	5.3	5.4	5.0	4.6
77.5°	3.7	5.2	4.8	5.3	5.8	5.8	5.7	5.8	5.8	5.5	5.2
75°	3.7	5.5	5.1	5.6	6.2	6.5	6.4	6.4	6.3	6.2	5.8
72.5°	3.7	5.8	5.4	5.9	6.9	7.2	7.1	7.2	7.4	7.1	6.5
70°	3.7	6.1	5.7	6.2	7.6	7.9	7.9	8.4	8.5	8.0	8.2
67.5°	3.7	6.4	6.0	7.0	8.3	8.7	9.4	9.8	9.7	10.2	10.2
65°	3.7	6.7	6.4	7.7	9.1	9.9	11.0	11.2	12.3	12.5	12.4
62.5°	3.7	7.0	6.8	8.5	9.9	11.5	12.6	13.5	15.0	15.0	15.0
60°	3.7	7.3	7.2	9.2	10.7	13.2	14.4	16.4	17.9	18.3	17.9
57.5°	3.7	7.7	8.1	10.0	12.4	14.9	17.1	19.4	21.7	22.1	24.3
55°	3.7	8.0	8.9	10.8	14.1	16.7	20.0	22.6	26.1	27.5	32.8
52.5°	3.7	8.3	9.8	11.6	15.8	18.7	22.9	27.1	30.9	37.9	42.1
50°	3.7	8.7	10.7	12.4	17.6	21.5	25.9	32.0	37.8	49.3	59.2
47.5°	3.7	9.0	11.6	13.4	19.4	24.3	29.1	37.0	49.2	61.5	79.8
45°	3.7	9.3	12.6	14.8	21.2	27.3	33.7	42.3	61.2	82.5	102.6
42.5°	3.7	9.7	13.5	16.2	23.1	30.3	38.4	51.0	73.8	105.2	137.5
40°	3.7	10.0	14.5	18.0	25.3	33.5	43.4	62.2	89.6	129.3	176.8
37.5°	3.7	10.3	15.5	20.0	27.8	36.7	48.9	73.7	111.7	158.1	218.9
35°	3.7	10.7	16.5	22.1	30.3	40.8	54.6	85.5	134.8	195.2	266.1
32.5°	3.7	11.0	17.5	24.1	32.8	45.3	61.7	97.8	158.6	232.5	312.9
30°	3.7	11.4	18.5	26.1	35.2	49.8	71.8	112.0	183.2	269.9	356.6
27.5°	3.7	11.7	19.5	28.2	38.4	54.3	81.8	130.7	208.2	307.2	397.3
25°	3.7	12.0	20.5	30.2	41.6	58.7	91.7	148.3	233.5	342.2	435.2
22.5°	3.7	12.3	21.5	32.2	44.7	63.2	101.3	164.9	256.6	365.8	476.4
20°	3.7	12.7	22.5	34.1	47.8	67.9	110.6	180.3	277.5	387.8	509.7
17.5°	3.7	13.0	23.4	36.0	50.8	72.3	119.2	194.6	296.2	408.0	541.0
15°	3.7	13.2	24.4	37.9	53.6	76.5	127.1	207.5	312.7	426.3	570.6
12.5°	3.7	13.5	25.3	39.7	56.4	80.5	134.5	218.9	329.5	442.8	598.2
10°	3.7	13.8	26.2	41.5	59.1	84.2	141.2	229.2	346.8	467.3	628.4
7.5°	3.7	14.0	27.1	43.2	61.7	87.7	147.3	238.3	362.7	492.0	666.1
5°	3.7	14.3	27.9	44.8	64.1	90.9	152.7	246.1	377.0	515.2	701.0
2.5°	3.7	14.5	28.7	46.3	66.4	93.9	157.4	252.7	389.5	536.4	732.7
0°	3.7	14.7	29.4	47.7	68.5	96.6	161.4	258.0	399.9	555.2	760.7
-2.5°	3.7	15.3	30.7	49.8	71.5	100.7	166.6	266.8	411.7	568.0	773.7
-5°	3.7	15.9	32.0	51.8	74.4	104.4	171.0	274.1	421.0	578.0	782.6
-7.5°	3.7	16.4	33.1	53.7	77.1	107.9	174.6	279.8	427.9	585.1	787.3
-10°	3.7	17.0	34.2	55.5	79.6	111.1	177.3	283.7	432.2	589.5	787.9
-12.5°	3.7	17.5	35.3	57.1	81.9	113.9	179.2	285.9	433.8	590.8	786.2
-15°	3.7	17.9	36.3	58.6	84.0	116.4	180.3	286.0	431.2	587.1	780.1
-17.5°	3.7	18.4	37.2	59.9	85.9	118.5	180.4	283.5	424.3	580.2	768.6
-20°	3.7	18.8	38.0	61.2	87.5	120.2	179.7	278.7	414.7	569.9	751.3



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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°	3.7	19.2	38.7	62.2	88.9	121.6	178.3	272.1	402.7	556.3	728.8
-25°	3.7	19.5	39.4	63.1	90.1	122.9	176.0	263.9	388.2	539.4	705.2
-27.5°	3.7	19.8	39.9	63.8	91.0	123.9	172.7	254.0	371.3	524.0	688.2
-30°	3.7	20.1	40.4	64.4	91.7	124.5	168.5	242.3	357.5	507.0	667.8
-32.5°	3.7	20.3	40.8	64.8	92.6	124.8	163.4	234.7	345.7	487.2	643.4
-35°	3.7	20.5	41.1	65.1	93.3	124.7	161.5	228.2	330.8	464.7	615.0
-37.5°	3.7	20.7	41.3	65.1	93.7	124.6	161.0	221.0	312.9	439.5	585.1
-40°	3.7	20.8	41.4	65.0	93.9	124.8	160.0	212.1	291.9	414.9	551.3
-42.5°	3.7	20.9	41.4	64.9	93.9	124.8	158.6	201.8	276.2	385.5	512.2
-45°	3.7	20.9	41.4	64.8	93.8	124.4	156.7	193.9	262.5	352.7	469.1
-47.5°	3.7	20.9	41.2	64.5	93.4	123.7	154.1	190.9	246.9	317.5	429.0
-50°	3.7	20.9	41.0	64.3	92.8	122.8	152.4	187.0	228.5	296.5	385.7
-52.5°	3.7	20.8	40.6	64.1	91.9	121.6	150.4	182.5	218.4	273.8	340.9
-55°	3.7	20.7	40.2	63.7	90.7	119.7	148.1	177.6	211.6	249.7	312.5
-57.5°	3.7	20.5	39.6	63.1	89.3	117.6	145.3	174.2	204.3	237.5	282.7
-60°	3.7	20.3	39.0	62.3	87.7	115.2	142.2	170.0	197.0	228.6	258.0
-62.5°	3.7	20.1	38.5	61.4	86.3	112.4	138.8	165.2	191.1	218.6	245.7
-65°	3.7	19.8	37.8	60.4	84.8	109.5	135.2	160.1	184.7	209.6	232.6
-67.5°	3.7	19.5	37.0	59.2	83.0	106.5	131.2	154.9	177.8	200.8	221.7
-70°	3.7	19.1	36.2	57.8	81.1	103.5	126.9	149.3	171.1	191.7	211.5
-72.5°	3.7	18.8	35.2	56.4	78.9	100.2	122.4	143.3	164.0	182.7	201.0
-75°	3.7	18.4	34.2	54.9	76.5	96.7	117.6	137.0	156.4	173.3	189.9
-77.5°	3.7	17.9	33.2	53.3	74.1	92.9	112.5	130.3	148.3	163.5	178.4
-80°	3.7	17.5	32.0	51.5	71.6	89.3	107.1	123.2	139.7	153.4	166.8
-82.5°	3.7	17.0	30.8	49.7	68.9	85.7	102.5	116.5	130.8	143.0	155.1
-85°	3.7	16.4	29.6	47.7	66.0	81.9	97.9	110.7	123.6	134.0	144.3
-87.5°	3.7	15.9	28.3	45.6	63.0	78.0	93.1	104.6	116.3	125.8	135.2
-90°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.1	2.4	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	132.7	139.4	145.5	151.6	157.2	162.7	170.0	177.3	182.8	188.3	193.8
87.5°	3.0	3.0	3.1	3.1	2.8	2.4	2.4	2.4	2.2	2.1	2.2
85°	3.6	3.7	3.7	3.7	3.2	2.8	2.9	2.9	3.0	3.1	2.8
82.5°	4.2	4.3	4.1	3.7	3.6	3.6	3.7	3.7	3.7	3.7	3.3
80°	4.7	4.9	4.5	4.1	4.2	4.4	4.2	3.8	3.7	3.8	3.9
77.5°	5.1	5.0	4.8	4.7	4.9	5.1	5.1	5.0	5.0	4.8	4.8
75°	5.5	5.1	5.2	5.1	5.1	5.7	6.1	6.1	5.9	5.7	5.8
72.5°	6.4	6.4	6.2	5.5	5.6	6.1	6.1	6.1	7.6	10.1	12.2
70°	8.0	7.9	7.4	7.0	6.7	7.2	9.2	12.6	16.4	19.8	23.2
67.5°	9.7	9.5	8.9	8.8	10.1	12.2	14.8	23.4	32.3	35.5	36.1
65°	11.5	11.2	11.3	12.7	14.5	20.6	28.5	38.8	47.5	46.9	43.3
62.5°	13.6	15.2	15.2	18.2	24.2	31.7	40.8	49.7	57.4	53.7	44.8
60°	19.4	20.5	23.3	28.9	35.1	42.4	51.9	54.8	56.7	55.3	43.5
57.5°	26.7	29.8	35.7	40.8	48.3	51.6	52.3	51.8	55.1	52.9	40.9
55°	37.3	42.8	50.6	55.9	60.3	53.9	53.2	56.5	56.1	51.4	39.7
52.5°	53.3	59.1	69.9	73.9	70.4	65.4	63.6	66.7	64.2	57.8	50.1
50°	70.7	84.5	91.7	94.8	88.6	87.9	81.5	85.5	89.0	85.9	96.6
47.5°	97.2	113.8	119.1	124.8	121.7	132.9	127.2	148.2	149.7	211.3	229.6
45°	129.1	151.4	157.5	172.3	188.5	208.1	241.9	250.8	352.0	413.6	486.4
42.5°	167.6	195.6	220.8	229.3	301.9	341.4	392.0	486.1	580.3	657.7	711.9
40°	217.1	245.6	299.0	362.7	440.0	507.0	603.8	712.7	802.4	861.9	889.8
37.5°	271.6	327.4	397.3	500.4	594.4	679.6	803.2	912.3	991.8	1046.8	1053.9
35°	330.2	409.4	523.9	628.4	725.4	840.8	963.6	1088.9	1154.1	1177.8	1278.9
32.5°	398.4	489.4	624.9	738.3	847.6	978.5	1109.0	1217.2	1274.9	1341.7	1683.8
30°	463.0	573.1	708.1	828.6	964.0	1113.0	1237.9	1340.0	1379.7	1731.1	2284.4
27.5°	514.6	645.8	781.3	926.8	1082.2	1252.6	1378.4	1444.7	1672.6	2192.6	2992.5
25°	562.6	703.9	855.3	1036.9	1213.7	1382.6	1510.6	1553.0	2027.0	2908.8	3505.0
22.5°	609.6	760.5	936.9	1153.4	1334.5	1492.1	1599.2	1855.9	2535.1	3651.9	3961.5
20°	656.6	827.5	1025.6	1241.6	1441.2	1588.4	1670.7	2175.3	3152.2	3937.5	4285.7
17.5°	702.0	894.9	1107.0	1315.7	1517.0	1666.2	1772.5	2444.8	3640.9	4193.7	4536.5
15°	746.1	952.5	1169.8	1385.3	1590.6	1734.3	2023.0	2840.0	3944.5	4503.6	4865.7
12.5°	788.4	1001.7	1216.1	1445.7	1661.9	1800.5	2282.7	3319.0	4261.2	4809.0	5200.3
10°	828.3	1043.1	1256.3	1500.8	1728.2	1858.1	2526.5	3766.5	4551.1	5026.3	5381.0
7.5°	868.5	1080.4	1292.7	1550.6	1790.6	1910.5	2732.7	4011.4	4664.9	5169.8	5508.5
5°	904.0	1114.9	1335.8	1612.0	1851.1	1958.8	2906.7	4176.2	4700.9	5241.5	5600.3
2.5°	934.4	1143.6	1373.5	1669.2	1905.6	2002.6	3025.3	4301.8	4744.5	5292.6	5714.4
0°	960.0	1166.7	1405.2	1718.3	1951.8	2042.3	3103.9	4369.6	4772.0	5315.0	5840.9
-2.5°	978.7	1197.5	1455.8	1759.9	1989.8	2083.8	3128.6	4398.7	4812.1	5438.4	6124.9
-5°	992.5	1222.2	1498.1	1793.0	2020.7	2122.1	3111.0	4371.6	4859.9	5552.3	6305.3
-7.5°	1001.2	1240.0	1530.7	1817.7	2046.5	2165.1	3057.9	4340.5	5009.7	5695.2	6396.1
-10°	1005.2	1249.2	1535.7	1827.0	2067.1	2208.2	2967.2	4235.2	5118.0	5749.8	6403.6
-12.5°	1008.7	1251.1	1529.6	1825.4	2080.0	2247.7	2853.2	4108.6	5217.8	5770.3	6357.2
-15°	1005.6	1247.3	1516.1	1814.0	2096.4	2297.6	2707.3	3873.9	5262.3	5748.8	6270.1
-17.5°	995.5	1237.8	1497.5	1799.4	2106.8	2344.0	2516.2	3512.2	5023.1	5682.5	6203.8
-20°	978.1	1220.5	1470.8	1771.4	2101.2	2364.1	2511.3	3247.5	4521.9	5552.1	6105.3



REPORT NUMBER: P731605 (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°	955.3	1195.9	1439.0	1734.1	2068.0	2355.8	2546.3	2955.8	3953.9	5361.1	5956.7
-25°	928.4	1164.7	1406.3	1694.0	2021.9	2340.0	2565.6	2687.0	3484.4	4713.7	5720.8
-27.5°	897.5	1127.6	1369.1	1640.5	1961.6	2292.9	2534.3	2694.6	3102.7	3973.5	5362.3
-30°	861.0	1084.8	1320.9	1578.4	1887.8	2204.0	2480.7	2684.8	2804.0	3468.3	4584.8
-32.5°	819.6	1035.5	1266.1	1518.9	1804.5	2108.4	2400.9	2621.6	2785.1	3002.6	3853.0
-35°	780.1	985.1	1205.3	1451.9	1715.1	2000.6	2275.1	2535.6	2740.5	2880.6	3226.4
-37.5°	745.2	930.1	1141.6	1379.1	1632.6	1876.9	2139.2	2407.6	2642.6	2836.3	2958.7
-40°	705.3	870.9	1076.1	1300.5	1526.4	1751.9	1996.8	2253.2	2512.1	2724.8	2911.3
-42.5°	660.6	821.0	1004.7	1209.0	1416.5	1629.6	1847.6	2090.4	2334.4	2577.0	2773.7
-45°	611.1	765.3	928.6	1112.2	1300.4	1501.4	1708.1	1917.9	2148.7	2377.6	2592.9
-47.5°	555.3	703.4	859.1	1009.1	1183.8	1368.3	1561.2	1759.1	1956.7	2166.9	2374.7
-50°	497.1	634.6	778.2	915.6	1065.0	1232.8	1410.0	1594.2	1780.6	1956.9	2139.8
-52.5°	443.1	559.6	691.0	822.7	953.9	1096.6	1256.7	1423.1	1595.6	1767.3	1922.0
-55°	384.9	489.6	598.9	723.1	848.5	972.0	1101.9	1252.5	1399.0	1556.9	1708.9
-57.5°	341.4	418.4	514.1	617.5	734.9	854.3	969.3	1082.7	1210.4	1342.5	1476.5
-60°	306.6	360.7	433.9	522.0	614.4	724.6	837.7	942.4	1038.8	1137.2	1258.6
-62.5°	274.5	318.9	369.8	431.1	511.5	593.4	690.7	790.5	884.3	974.2	1064.6
-65°	259.0	282.2	320.7	366.4	412.4	482.2	556.7	633.1	719.1	801.6	885.6
-67.5°	242.6	264.6	285.9	310.8	352.2	392.9	433.2	500.5	567.8	628.5	689.6
-70°	229.9	247.2	266.4	285.0	303.7	327.6	364.3	401.9	438.3	478.6	529.9
-72.5°	217.5	233.0	248.5	263.5	280.4	297.6	315.2	333.6	360.3	391.4	419.4
-75°	204.8	218.3	231.9	245.4	259.4	273.7	288.5	304.7	321.3	338.0	352.9
-77.5°	191.9	204.6	216.2	227.5	239.5	252.2	265.4	278.7	292.3	306.1	317.8
-80°	178.7	190.6	200.9	210.8	221.1	231.5	242.8	254.3	265.8	277.4	287.5
-82.5°	165.2	175.4	184.6	193.5	202.3	211.1	220.9	230.9	240.8	250.7	259.3
-85°	152.2	159.9	167.8	175.6	183.4	191.0	199.8	208.5	216.9	225.2	232.5
-87.5°	142.5	149.7	156.3	162.8	169.0	175.2	182.7	190.2	196.7	203.2	209.3
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.8	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	199.3	203.0	206.7	209.8	212.8	217.1	221.4	227.5	233.6	241.0	248.3
87.5°	2.2	2.2	2.2	1.7	1.2	1.2	1.2	1.2	1.2	1.8	2.4
85°	2.4	2.4	2.4	2.8	3.2	3.3	3.4	3.5	3.5	3.6	3.7
82.5°	3.0	3.1	3.2	3.5	3.7	3.7	3.7	3.7	3.7	4.2	4.8
80°	4.0	4.1	4.3	4.4	4.4	4.2	3.8	3.7	3.7	4.3	4.9
77.5°	5.0	5.1	4.9	4.7	4.3	4.0	3.7	3.7	3.7	3.8	3.8
75°	6.0	6.1	6.5	6.9	7.4	7.5	7.1	7.2	7.6	7.4	7.0
72.5°	13.4	13.8	13.8	15.4	16.9	17.5	18.0	19.2	20.6	22.5	24.6
70°	26.3	29.0	30.1	30.2	29.0	28.2	27.6	27.5	28.0	29.3	30.9
67.5°	37.9	39.0	38.5	38.0	35.7	33.0	29.9	28.3	29.0	30.4	32.3
65°	42.8	39.4	37.0	36.1	34.0	30.6	25.9	22.7	22.1	21.6	21.4
62.5°	38.5	32.4	29.6	28.0	25.0	22.1	17.8	14.5	13.2	12.4	12.3
60°	33.6	26.0	21.4	19.3	16.1	12.5	10.3	7.9	7.1	6.6	6.7
57.5°	29.2	21.6	16.2	15.3	12.4	9.8	7.9	5.8	5.2	4.9	5.1
55°	30.0	26.2	21.9	19.7	16.4	14.9	13.1	11.8	10.8	11.1	11.8
52.5°	42.4	45.6	40.1	38.7	48.2	48.3	39.9	52.8	60.8	66.8	68.5
50°	109.5	108.7	144.5	138.5	171.5	198.5	199.6	216.0	247.3	268.7	280.3
47.5°	290.8	323.4	365.2	408.9	443.2	485.9	529.1	561.4	569.3	570.1	575.8
45°	547.5	594.1	656.8	702.8	767.6	807.4	840.6	870.6	939.9	1003.7	1078.1
42.5°	764.5	815.4	880.5	973.9	1042.1	1224.1	1502.7	1571.2	1581.0	1637.7	1720.2
40°	935.9	1002.6	1147.0	1351.8	1788.1	2179.4	2250.0	2308.8	2334.6	2303.2	2359.2
37.5°	1143.3	1299.8	1624.9	2184.8	2391.7	2498.3	2573.2	2618.2	2672.9	2723.4	2750.9
35°	1487.6	1923.8	2208.7	2507.8	2643.1	2697.0	2752.1	2807.6	2850.5	2906.5	2951.2
32.5°	2194.5	2680.1	2708.7	2782.6	2853.1	2923.4	2974.7	3027.5	3073.3	3145.8	3297.9
30°	2906.6	3012.5	3038.4	3045.1	3109.4	3193.6	3238.2	3344.8	3488.7	3653.9	4005.3
27.5°	3285.7	3358.5	3373.7	3381.0	3410.9	3510.5	3695.0	3840.6	4186.1	4605.5	5508.5
25°	3747.3	3799.1	3854.1	3851.7	3897.2	4073.5	4434.4	4741.7	5909.0	7001.4	9354.8
22.5°	4187.7	4344.4	4422.5	4527.0	4681.6	5002.4	5635.5	7413.7	10386.7	14180.8	18904.1
20°	4493.8	4704.5	4914.6	5206.4	5580.0	6245.9	8223.5	13544.5	19899.0	29119.5	36853.2
17.5°	4802.5	5040.6	5412.1	5862.3	6489.7	8725.6	14523.4	23558.3	36607.7	52977.2	67339.8
15°	5205.1	5487.6	5985.0	6627.9	8380.8	13153.6	22825.3	39265.1	59102.8	82113.7	106252.0
12.5°	5479.2	5868.5	6459.9	7290.1	10167.4	19106.4	34678.8	57215.8	84519.2	113513.6	151990.4
10°	5681.8	6147.4	6950.6	8671.9	13889.1	25677.0	44390.1	72516.0	109948.1	154137.6	198128.1
7.5°	5851.9	6478.9	7487.3	9656.3	17100.2	31961.8	55815.2	90001.0	134289.4	187535.7	238692.9
5°	6004.8	6836.1	8003.8	10717.3	19977.3	36512.2	63413.1	103059.0	154345.5	212499.3	268980.4
2.5°	6206.9	7170.4	8338.8	11009.4	21129.0	39033.5	69433.5	113603.2	168665.4	229839.2	291290.8
0°	6487.8	7387.9	8543.6	11196.2	20770.8	40613.3	73123.2	118895.0	174940.8	237122.2	301574.6
-2.5°	6708.6	7513.2	8662.9	11045.6	20595.5	39870.3	71458.0	115810.3	168796.9	228882.2	293174.4
-5°	6851.3	7603.1	8715.2	11101.9	20153.7	37030.6	66539.7	107728.3	156285.8	210524.3	269975.2
-7.5°	6934.8	7636.0	8661.0	10748.0	18146.3	33162.1	57785.3	92831.1	136391.2	186580.5	235712.7
-10°	6984.8	7614.6	8547.5	10247.1	15263.6	26950.1	45620.1	75322.3	113064.8	153506.7	193695.0
-12.5°	7003.6	7569.7	8387.7	9529.9	12237.9	21098.7	36315.3	57395.1	85411.6	118586.3	153998.8
-15°	6966.8	7504.3	8233.1	9222.1	11023.7	15816.6	25340.2	39676.9	60559.4	85888.3	111550.0
-17.5°	6830.0	7436.8	8004.2	8763.5	9823.9	12084.2	17880.6	27082.7	39817.5	56559.6	71364.9
-20°	6648.7	7309.5	7795.2	8466.4	9299.0	10333.6	12192.4	17808.5	24949.2	34641.8	44304.8



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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°	6487.3	7091.9	7702.6	8163.3	8815.4	9495.4	10334.9	11941.4	15529.5	20368.6	26494.3
-25°	6338.4	6891.8	7518.5	8016.7	8384.6	8865.3	9391.1	9954.0	11172.8	12315.6	15270.8
-27.5°	6128.7	6702.0	7245.5	7777.3	8131.8	8349.9	8708.3	9058.1	9568.5	10022.4	10890.3
-30°	5884.8	6445.7	6962.9	7446.0	7809.2	8038.7	8216.4	8456.9	8727.0	9001.8	9374.7
-32.5°	5015.6	6144.6	6626.1	7062.3	7436.9	7706.6	7894.8	8052.8	8208.7	8384.6	8581.1
-35°	4063.4	5178.5	6265.0	6605.1	6959.1	7316.2	7595.2	7744.3	7880.0	8003.2	8123.4
-37.5°	3303.7	4090.4	5065.6	5992.4	6422.5	6783.2	7118.5	7379.0	7569.2	7684.7	7792.9
-40°	3006.4	3205.7	3955.7	4718.9	5452.8	6119.1	6460.1	6845.1	7158.0	7327.6	7445.3
-42.5°	2935.3	3026.8	3096.9	3580.4	4164.2	4726.1	5347.8	5965.0	6449.3	6772.1	7012.2
-45°	2779.6	2911.3	3015.8	3058.9	3085.3	3494.9	3976.5	4447.8	4991.6	5553.4	6063.5
-47.5°	2559.0	2730.3	2848.3	2940.6	2995.8	3013.1	3047.0	3152.7	3547.5	3962.8	4358.2
-50°	2312.9	2469.9	2611.3	2739.7	2816.1	2878.1	2937.4	2994.3	3042.4	3103.2	3158.0
-52.5°	2065.1	2209.0	2336.1	2448.9	2550.1	2647.8	2741.9	2812.1	2880.8	2954.4	3014.4
-55°	1844.5	1961.1	2067.6	2166.6	2257.9	2340.5	2425.5	2516.3	2610.2	2702.1	2773.4
-57.5°	1608.5	1720.1	1821.0	1904.8	1978.3	2039.9	2118.0	2203.1	2291.5	2373.3	2435.4
-60°	1370.5	1469.2	1561.5	1642.8	1712.5	1769.9	1842.0	1914.0	1992.8	2062.8	2118.1
-62.5°	1144.5	1227.7	1306.1	1377.1	1440.6	1498.8	1562.8	1627.0	1701.1	1766.3	1819.1
-65°	956.7	1021.2	1074.9	1125.2	1164.4	1214.8	1276.7	1336.0	1400.5	1457.0	1504.0
-67.5°	753.3	812.8	861.9	905.9	940.4	976.4	1022.2	1069.4	1119.5	1164.3	1203.8
-70°	575.6	615.6	647.5	680.3	715.7	750.0	786.7	827.1	869.1	906.1	938.7
-72.5°	444.0	463.8	482.4	509.1	532.9	556.8	580.0	608.9	640.0	668.2	693.6
-75°	366.8	379.0	393.2	405.9	417.0	429.7	442.6	461.4	481.8	501.1	519.3
-77.5°	329.1	337.9	345.1	351.0	356.2	363.9	372.2	386.2	401.2	417.5	433.8
-80°	297.1	303.9	309.9	315.1	319.8	326.2	332.7	345.0	357.9	371.7	385.5
-82.5°	267.5	272.9	277.8	282.5	287.0	292.5	297.8	308.6	319.7	331.3	342.7
-85°	239.7	244.3	248.5	252.4	256.1	260.8	265.4	274.7	283.9	293.7	303.4
-87.5°	215.3	219.5	223.6	227.1	230.5	234.6	238.6	246.7	254.8	263.0	271.1
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



REPORT NUMBER: P731605 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	248.9	249.5	250.1	250.7	250.1	249.5	248.9	248.3	241.0	233.6	227.5
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.8	1.2	1.2
85°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.5	3.5
82.5°	4.3	3.7	4.3	4.9	4.3	3.7	4.3	4.8	4.2	3.7	3.7
80°	4.3	3.7	4.3	4.9	4.3	3.7	4.3	4.9	4.3	3.7	3.7
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.8	3.8	3.7	3.7
75°	6.1	5.0	4.3	3.7	4.3	5.0	6.1	7.0	7.4	7.6	7.2
72.5°	25.1	25.2	25.6	25.7	25.6	25.2	25.1	24.6	22.5	20.6	19.2
70°	31.9	32.7	32.9	33.0	32.9	32.7	31.9	30.9	29.3	28.0	27.5
67.5°	32.5	31.9	31.3	30.6	31.3	31.9	32.5	32.3	30.4	29.0	28.3
65°	20.4	19.0	16.8	14.7	16.8	19.0	20.4	21.4	21.6	22.1	22.7
62.5°	11.8	11.3	11.1	11.0	11.1	11.3	11.8	12.3	12.4	13.2	14.5
60°	6.9	7.3	7.3	7.3	7.3	7.3	6.9	6.7	6.6	7.1	7.9
57.5°	5.3	5.9	6.6	7.3	6.6	5.9	5.3	5.1	4.9	5.2	5.8
55°	12.5	13.9	14.6	14.7	14.6	13.9	12.5	11.8	11.1	10.8	11.8
52.5°	66.1	62.7	59.8	57.5	59.8	62.7	66.1	68.5	66.8	60.8	52.8
50°	285.5	292.9	296.4	296.0	296.4	292.9	285.5	280.3	268.7	247.3	216.0
47.5°	588.0	592.1	588.7	579.7	588.7	592.1	588.0	575.8	570.1	569.3	561.4
45°	1168.9	1118.3	1028.4	949.0	1028.4	1118.3	1168.9	1078.1	1003.7	939.9	870.6
42.5°	1829.8	1890.4	1935.9	1956.7	1935.9	1890.4	1829.8	1720.2	1637.7	1581.0	1571.2
40°	2296.3	2231.6	2218.4	2228.2	2218.4	2231.6	2296.3	2359.2	2303.2	2334.6	2308.8
37.5°	2757.9	2816.7	2860.3	2789.6	2860.3	2816.7	2757.9	2750.9	2723.4	2672.9	2618.2
35°	3055.2	3264.4	3510.1	3584.5	3510.1	3264.4	3055.2	2951.2	2906.5	2850.5	2807.6
32.5°	3552.5	3773.5	3869.2	3892.7	3869.2	3773.5	3552.5	3297.9	3145.8	3073.3	3027.5
30°	4343.8	4564.5	4604.2	4636.2	4604.2	4564.5	4343.8	4005.3	3653.9	3488.7	3344.8
27.5°	6107.6	6601.3	6718.5	6800.9	6718.5	6601.3	6107.6	5508.5	4605.5	4186.1	3840.6
25°	11212.8	12497.0	13335.8	13254.4	13335.8	12497.0	11212.8	9354.8	7001.4	5909.0	4741.7
22.5°	23636.7	26157.4	27502.5	27478.7	27502.5	26157.4	23636.7	18904.1	14180.8	10386.7	7413.7
20°	47871.2	55330.1	59367.4	58907.5	59367.4	55330.1	47871.2	36853.2	29119.5	19899.0	13544.5
17.5°	83472.1	97878.5	107943.2	108355.5	107943.2	97878.5	83472.1	67339.8	52977.2	36607.7	23558.3
15°	129072.7	150448.3	165538.1	165536.2	165538.1	150448.3	129072.7	106252.0	82113.7	59102.8	39265.1
12.5°	184571.3	210122.1	227387.3	229976.5	227387.3	210122.1	184571.3	151990.4	113513.6	84519.2	57215.8
10°	237835.2	266776.7	292877.8	300064.3	292877.8	266776.7	237835.2	198128.1	154137.6	109948.1	72516.0
7.5°	282919.0	328446.0	352221.6	359709.9	352221.6	328446.0	282919.0	238692.9	187535.7	134289.4	90001.0
5°	327171.4	366579.0	386540.6	392319.5	386540.6	366579.0	327171.4	268980.4	212499.3	154345.5	103059.0
2.5°	350449.6	386621.8	414678.1	430949.2	414678.1	386621.8	350449.6	291290.8	229839.2	168665.4	113603.2
0°	359207.9	393574.2	431200.4	456828.2	431200.4	393574.2	359207.9	301574.6	237122.2	174940.8	118895.0
-2.5°	350447.7	383701.4	411429.5	424929.1	411429.5	383701.4	350447.7	293174.4	228882.2	168796.9	115810.3
-5°	323892.8	363006.4	383194.7	388305.7	383194.7	363006.4	323892.8	269975.2	210524.3	156285.8	107728.3
-7.5°	281480.7	319098.3	343850.3	349425.4	343850.3	319098.3	281480.7	235712.7	186580.5	136391.2	92831.1
-10°	234263.7	266395.5	283094.0	287223.2	283094.0	266395.5	234263.7	193695.0	153506.7	113064.8	75322.3
-12.5°	182028.1	205592.1	222637.7	224951.3	222637.7	205592.1	182028.1	153998.8	118586.3	85411.6	57395.1
-15°	135491.8	151075.9	164818.1	166397.2	164818.1	151075.9	135491.8	111550.0	85888.3	60559.4	39676.9
-17.5°	90772.5	103674.7	111363.8	113582.4	111363.8	103674.7	90772.5	71364.9	56559.6	39817.5	27082.7
-20°	54387.7	63620.2	68744.5	68937.0	68744.5	63620.2	54387.7	44304.8	34641.8	24949.2	17808.5



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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°	31553.1	36690.1	39401.3	39348.7	39401.3	36690.1	31553.1	26494.3	20368.6	15529.5	11941.4
-25°	18197.3	20446.5	21344.2	21376.1	21344.2	20446.5	18197.3	15270.8	12315.6	11172.8	9954.0
-27.5°	11587.0	12103.4	12310.2	12343.3	12310.2	12103.4	11587.0	10890.3	10022.4	9568.5	9058.1
-30°	9714.7	10016.8	10155.7	10194.6	10155.7	10016.8	9714.7	9374.7	9001.8	8727.0	8456.9
-32.5°	8765.6	8932.1	9044.3	9027.9	9044.3	8932.1	8765.6	8581.1	8384.6	8208.7	8052.8
-35°	8241.0	8343.9	8407.0	8437.2	8407.0	8343.9	8241.0	8123.4	8003.2	7880.0	7744.3
-37.5°	7900.7	7992.8	8052.5	8070.3	8052.5	7992.8	7900.7	7792.9	7684.7	7569.2	7379.0
-40°	7546.6	7623.3	7672.3	7690.0	7672.3	7623.3	7546.6	7445.3	7327.6	7158.0	6845.1
-42.5°	7164.5	7246.9	7286.0	7286.4	7286.0	7246.9	7164.5	7012.2	6772.1	6449.3	5965.0
-45°	6481.9	6735.4	6862.3	6868.1	6862.3	6735.4	6481.9	6063.5	5553.4	4991.6	4447.8
-47.5°	4717.8	4968.2	5169.6	5318.7	5169.6	4968.2	4717.8	4358.2	3962.8	3547.5	3152.7
-50°	3205.8	3222.3	3223.4	3209.0	3223.4	3222.3	3205.8	3158.0	3103.2	3042.4	2994.3
-52.5°	3061.2	3078.3	3090.8	3097.8	3090.8	3078.3	3061.2	3014.4	2954.4	2880.8	2812.1
-55°	2826.2	2847.8	2856.6	2853.2	2856.6	2847.8	2826.2	2773.4	2702.1	2610.2	2516.3
-57.5°	2477.1	2491.4	2498.0	2496.1	2498.0	2491.4	2477.1	2435.4	2373.3	2291.5	2203.1
-60°	2152.0	2162.5	2168.7	2168.3	2168.7	2162.5	2152.0	2118.1	2062.8	1992.8	1914.0
-62.5°	1848.9	1858.4	1865.3	1866.2	1865.3	1858.4	1848.9	1819.1	1766.3	1701.1	1627.0
-65°	1527.7	1534.8	1539.4	1538.5	1539.4	1534.8	1527.7	1504.0	1457.0	1400.5	1336.0
-67.5°	1221.2	1226.2	1230.4	1230.3	1230.4	1226.2	1221.2	1203.8	1164.3	1119.5	1069.4
-70°	949.0	949.5	951.5	950.2	951.5	949.5	949.0	938.7	906.1	869.1	827.1
-72.5°	699.5	698.8	698.5	695.9	698.5	698.8	699.5	693.6	668.2	640.0	608.9
-75°	521.1	519.3	517.6	514.9	517.6	519.3	521.1	519.3	501.1	481.8	461.4
-77.5°	435.7	435.7	432.8	429.3	432.8	435.7	435.7	433.8	417.5	401.2	386.2
-80°	386.3	385.9	384.5	382.8	384.5	385.9	386.3	385.5	371.7	357.9	345.0
-82.5°	343.9	344.4	344.2	343.7	344.2	344.4	343.9	342.7	331.3	319.7	308.6
-85°	304.5	305.4	305.0	304.5	305.0	305.4	304.5	303.4	293.7	283.9	274.7
-87.5°	271.9	272.6	272.7	272.7	272.7	272.6	271.9	271.1	263.0	254.8	246.7
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	221.4	217.1	212.8	209.8	206.7	203.0	199.3	193.8	188.3	182.8	177.3
87.5°	1.2	1.2	1.2	1.7	2.2	2.2	2.2	2.2	2.1	2.2	2.4
85°	3.4	3.3	3.2	2.8	2.4	2.4	2.4	2.8	3.1	3.0	2.9
82.5°	3.7	3.7	3.7	3.5	3.2	3.1	3.0	3.3	3.7	3.7	3.7
80°	3.8	4.2	4.4	4.4	4.3	4.1	4.0	3.9	3.8	3.7	3.8
77.5°	3.7	4.0	4.3	4.7	4.9	5.1	5.0	4.8	4.8	5.0	5.0
75°	7.1	7.5	7.4	6.9	6.5	6.1	6.0	5.8	5.7	5.9	6.1
72.5°	18.0	17.5	16.9	15.4	13.8	13.8	13.4	12.2	10.1	7.6	6.1
70°	27.6	28.2	29.0	30.2	30.1	29.0	26.3	23.2	19.8	16.4	12.6
67.5°	29.9	33.0	35.7	38.0	38.5	39.0	37.9	36.1	35.5	32.3	23.4
65°	25.9	30.6	34.0	36.1	37.0	39.4	42.8	43.3	46.9	47.5	38.8
62.5°	17.8	22.1	25.0	28.0	29.6	32.4	38.5	44.8	53.7	57.4	49.7
60°	10.3	12.5	16.1	19.3	21.4	26.0	33.6	43.5	55.3	56.7	54.8
57.5°	7.9	9.8	12.4	15.3	16.2	21.6	29.2	40.9	52.9	55.1	51.8
55°	13.1	14.9	16.4	19.7	21.9	26.2	30.0	39.7	51.4	56.1	56.5
52.5°	39.9	48.3	48.2	38.7	40.1	45.6	42.4	50.1	57.8	64.2	66.7
50°	199.6	198.5	171.5	138.5	144.5	108.7	109.5	96.6	85.9	89.0	85.5
47.5°	529.1	485.9	443.2	408.9	365.2	323.4	290.8	229.6	211.3	149.7	148.2
45°	840.6	807.4	767.6	702.8	656.8	594.1	547.5	486.4	413.6	352.0	250.8
42.5°	1502.7	1224.1	1042.1	973.9	880.5	815.4	764.5	711.9	657.7	580.3	486.1
40°	2250.0	2179.4	1788.1	1351.8	1147.0	1002.6	935.9	889.8	861.9	802.4	712.7
37.5°	2573.2	2498.3	2391.7	2184.8	1624.9	1299.8	1143.3	1053.9	1046.8	991.8	912.3
35°	2752.1	2697.0	2643.1	2507.8	2208.7	1923.8	1487.6	1278.9	1177.8	1154.1	1088.9
32.5°	2974.7	2923.4	2853.1	2782.6	2708.7	2680.1	2194.5	1683.8	1341.7	1274.9	1217.2
30°	3238.2	3193.6	3109.4	3045.1	3038.4	3012.5	2906.6	2284.4	1731.1	1379.7	1340.0
27.5°	3695.0	3510.5	3410.9	3381.0	3373.7	3358.5	3285.7	2992.5	2192.6	1672.6	1444.7
25°	4434.4	4073.5	3897.2	3851.7	3854.1	3799.1	3747.3	3505.0	2908.8	2027.0	1553.0
22.5°	5635.5	5002.4	4681.6	4527.0	4422.5	4344.4	4187.7	3961.5	3651.9	2535.1	1855.9
20°	8223.5	6245.9	5580.0	5206.4	4914.6	4704.5	4493.8	4285.7	3937.5	3152.2	2175.3
17.5°	14523.4	8725.6	6489.7	5862.3	5412.1	5040.6	4802.5	4536.5	4193.7	3640.9	2444.8
15°	22825.3	13153.6	8380.8	6627.9	5985.0	5487.6	5205.1	4865.7	4503.6	3944.5	2840.0
12.5°	34678.8	19106.4	10167.4	7290.1	6459.9	5868.5	5479.2	5200.3	4809.0	4261.2	3319.0
10°	44390.1	25677.0	13889.1	8671.9	6950.6	6147.4	5681.8	5381.0	5026.3	4551.1	3766.5
7.5°	55815.2	31961.8	17100.2	9656.3	7487.3	6478.9	5851.9	5508.5	5169.8	4664.9	4011.4
5°	63413.1	36512.2	19977.3	10717.3	8003.8	6836.1	6004.8	5600.3	5241.5	4700.9	4176.2
2.5°	69433.5	39033.5	21129.0	11009.4	8338.8	7170.4	6206.9	5714.4	5292.6	4744.5	4301.8
0°	73123.2	40613.3	20770.8	11196.2	8543.6	7387.9	6487.8	5840.9	5315.0	4772.0	4369.6
-2.5°	71458.0	39870.3	20595.5	11045.6	8662.9	7513.2	6708.6	6124.9	5438.4	4812.1	4398.7
-5°	66539.7	37030.6	20153.7	11101.9	8715.2	7603.1	6851.3	6305.3	5552.3	4859.9	4371.6
-7.5°	57785.3	33162.1	18146.3	10748.0	8661.0	7636.0	6934.8	6396.1	5695.2	5009.7	4340.5
-10°	45620.1	26950.1	15263.6	10247.1	8547.5	7614.6	6984.8	6403.6	5749.8	5118.0	4235.2
-12.5°	36315.3	21098.7	12237.9	9529.9	8387.7	7569.7	7003.6	6357.2	5770.3	5217.8	4108.6
-15°	25340.2	15816.6	11023.7	9222.1	8233.1	7504.3	6966.8	6270.1	5748.8	5262.3	3873.9
-17.5°	17880.6	12084.2	9823.9	8763.5	8004.2	7436.8	6830.0	6203.8	5682.5	5023.1	3512.2
-20°	12192.4	10333.6	9299.0	8466.4	7795.2	7309.5	6648.7	6105.3	5552.1	4521.9	3247.5



REPORT NUMBER: P731605 (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°	10334.9	9495.4	8815.4	8163.3	7702.6	7091.9	6487.3	5956.7	5361.1	3953.9	2955.8
-25°	9391.1	8865.3	8384.6	8016.7	7518.5	6891.8	6338.4	5720.8	4713.7	3484.4	2687.0
-27.5°	8708.3	8349.9	8131.8	7777.3	7245.5	6702.0	6128.7	5362.3	3973.5	3102.7	2694.6
-30°	8216.4	8038.7	7809.2	7446.0	6962.9	6445.7	5884.8	4584.8	3468.3	2804.0	2684.8
-32.5°	7894.8	7706.6	7436.9	7062.3	6626.1	6144.6	5015.6	3853.0	3002.6	2785.1	2621.6
-35°	7595.2	7316.2	6959.1	6605.1	6265.0	5178.5	4063.4	3226.4	2880.6	2740.5	2535.6
-37.5°	7118.5	6783.2	6422.5	5992.4	5065.6	4090.4	3303.7	2958.7	2836.3	2642.6	2407.6
-40°	6460.1	6119.1	5452.8	4718.9	3955.7	3205.7	3006.4	2911.3	2724.8	2512.1	2253.2
-42.5°	5347.8	4726.1	4164.2	3580.4	3096.9	3026.8	2935.3	2773.7	2577.0	2334.4	2090.4
-45°	3976.5	3494.9	3085.3	3058.9	3015.8	2911.3	2779.6	2592.9	2377.6	2148.7	1917.9
-47.5°	3047.0	3013.1	2995.8	2940.6	2848.3	2730.3	2559.0	2374.7	2166.9	1956.7	1759.1
-50°	2937.4	2878.1	2816.1	2739.7	2611.3	2469.9	2312.9	2139.8	1956.9	1780.6	1594.2
-52.5°	2741.9	2647.8	2550.1	2448.9	2336.1	2209.0	2065.1	1922.0	1767.3	1595.6	1423.1
-55°	2425.5	2340.5	2257.9	2166.6	2067.6	1961.1	1844.5	1708.9	1556.9	1399.0	1252.5
-57.5°	2118.0	2039.9	1978.3	1904.8	1821.0	1720.1	1608.5	1476.5	1342.5	1210.4	1082.7
-60°	1842.0	1769.9	1712.5	1642.8	1561.5	1469.2	1370.5	1258.6	1137.2	1038.8	942.4
-62.5°	1562.8	1498.8	1440.6	1377.1	1306.1	1227.7	1144.5	1064.6	974.2	884.3	790.5
-65°	1276.7	1214.8	1164.4	1125.2	1074.9	1021.2	956.7	885.6	801.6	719.1	633.1
-67.5°	1022.2	976.4	940.4	905.9	861.9	812.8	753.3	689.6	628.5	567.8	500.5
-70°	786.7	750.0	715.7	680.3	647.5	615.6	575.6	529.9	478.6	438.3	401.9
-72.5°	580.0	556.8	532.9	509.1	482.4	463.8	444.0	419.4	391.4	360.3	333.6
-75°	442.6	429.7	417.0	405.9	393.2	379.0	366.8	352.9	338.0	321.3	304.7
-77.5°	372.2	363.9	356.2	351.0	345.1	337.9	329.1	317.8	306.1	292.3	278.7
-80°	332.7	326.2	319.8	315.1	309.9	303.9	297.1	287.5	277.4	265.8	254.3
-82.5°	297.8	292.5	287.0	282.5	277.8	272.9	267.5	259.3	250.7	240.8	230.9
-85°	265.4	260.8	256.1	252.4	248.5	244.3	239.7	232.5	225.2	216.9	208.5
-87.5°	238.6	234.6	230.5	227.1	223.6	219.5	215.3	209.3	203.2	196.7	190.2
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.4



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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°	170.0	162.7	157.2	151.6	145.5	139.4	132.7	126.0	117.4	108.8	98.5
87.5°	2.4	2.4	2.8	3.1	3.1	3.0	3.0	3.0	3.1	3.3	3.6
85°	2.9	2.8	3.2	3.7	3.7	3.7	3.6	3.5	3.9	4.1	4.2
82.5°	3.7	3.6	3.6	3.7	4.1	4.3	4.2	4.1	4.5	4.9	4.7
80°	4.2	4.4	4.2	4.1	4.5	4.9	4.7	4.6	5.0	5.4	5.3
77.5°	5.1	5.1	4.9	4.7	4.8	5.0	5.1	5.2	5.5	5.8	5.8
75°	6.1	5.7	5.1	5.1	5.2	5.1	5.5	5.8	6.2	6.3	6.4
72.5°	6.1	6.1	5.6	5.5	6.2	6.4	6.4	6.5	7.1	7.4	7.2
70°	9.2	7.2	6.7	7.0	7.4	7.9	8.0	8.2	8.0	8.5	8.4
67.5°	14.8	12.2	10.1	8.8	8.9	9.5	9.7	10.2	10.2	9.7	9.8
65°	28.5	20.6	14.5	12.7	11.3	11.2	11.5	12.4	12.5	12.3	11.2
62.5°	40.8	31.7	24.2	18.2	15.2	15.2	13.6	15.0	15.0	15.0	13.5
60°	51.9	42.4	35.1	28.9	23.3	20.5	19.4	17.9	18.3	17.9	16.4
57.5°	52.3	51.6	48.3	40.8	35.7	29.8	26.7	24.3	22.1	21.7	19.4
55°	53.2	53.9	60.3	55.9	50.6	42.8	37.3	32.8	27.5	26.1	22.6
52.5°	63.6	65.4	70.4	73.9	69.9	59.1	53.3	42.1	37.9	30.9	27.1
50°	81.5	87.9	88.6	94.8	91.7	84.5	70.7	59.2	49.3	37.8	32.0
47.5°	127.2	132.9	121.7	124.8	119.1	113.8	97.2	79.8	61.5	49.2	37.0
45°	241.9	208.1	188.5	172.3	157.5	151.4	129.1	102.6	82.5	61.2	42.3
42.5°	392.0	341.4	301.9	229.3	220.8	195.6	167.6	137.5	105.2	73.8	51.0
40°	603.8	507.0	440.0	362.7	299.0	245.6	217.1	176.8	129.3	89.6	62.2
37.5°	803.2	679.6	594.4	500.4	397.3	327.4	271.6	218.9	158.1	111.7	73.7
35°	963.6	840.8	725.4	628.4	523.9	409.4	330.2	266.1	195.2	134.8	85.5
32.5°	1109.0	978.5	847.6	738.3	624.9	489.4	398.4	312.9	232.5	158.6	97.8
30°	1237.9	1113.0	964.0	828.6	708.1	573.1	463.0	356.6	269.9	183.2	112.0
27.5°	1378.4	1252.6	1082.2	926.8	781.3	645.8	514.6	397.3	307.2	208.2	130.7
25°	1510.6	1382.6	1213.7	1036.9	855.3	703.9	562.6	435.2	342.2	233.5	148.3
22.5°	1599.2	1492.1	1334.5	1153.4	936.9	760.5	609.6	476.4	365.8	256.6	164.9
20°	1670.7	1588.4	1441.2	1241.6	1025.6	827.5	656.6	509.7	387.8	277.5	180.3
17.5°	1772.5	1666.2	1517.0	1315.7	1107.0	894.9	702.0	541.0	408.0	296.2	194.6
15°	2023.0	1734.3	1590.6	1385.3	1169.8	952.5	746.1	570.6	426.3	312.7	207.5
12.5°	2282.7	1800.5	1661.9	1445.7	1216.1	1001.7	788.4	598.2	442.8	329.5	218.9
10°	2526.5	1858.1	1728.2	1500.8	1256.3	1043.1	828.3	628.4	467.3	346.8	229.2
7.5°	2732.7	1910.5	1790.6	1550.6	1292.7	1080.4	868.5	666.1	492.0	362.7	238.3
5°	2906.7	1958.8	1851.1	1612.0	1335.8	1114.9	904.0	701.0	515.2	377.0	246.1
2.5°	3025.3	2002.6	1905.6	1669.2	1373.5	1143.6	934.4	732.7	536.4	389.5	252.7
0°	3103.9	2042.3	1951.8	1718.3	1405.2	1166.7	960.0	760.7	555.2	399.9	258.0
-2.5°	3128.6	2083.8	1989.8	1759.9	1455.8	1197.5	978.7	773.7	568.0	411.7	266.8
-5°	3111.0	2122.1	2020.7	1793.0	1498.1	1222.2	992.5	782.6	578.0	421.0	274.1
-7.5°	3057.9	2165.1	2046.5	1817.7	1530.7	1240.0	1001.2	787.3	585.1	427.9	279.8
-10°	2967.2	2208.2	2067.1	1827.0	1535.7	1249.2	1005.2	787.9	589.5	432.2	283.7
-12.5°	2853.2	2247.7	2080.0	1825.4	1529.6	1251.1	1008.7	786.2	590.8	433.8	285.9
-15°	2707.3	2297.6	2096.4	1814.0	1516.1	1247.3	1005.6	780.1	587.1	431.2	286.0
-17.5°	2516.2	2344.0	2106.8	1799.4	1497.5	1237.8	995.5	768.6	580.2	424.3	283.5
-20°	2511.3	2364.1	2101.2	1771.4	1470.8	1220.5	978.1	751.3	569.9	414.7	278.7



REPORT NUMBER: P731605 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2546.3	2355.8	2068.0	1734.1	1439.0	1195.9	955.3	728.8	556.3	402.7	272.1
-25°	2565.6	2340.0	2021.9	1694.0	1406.3	1164.7	928.4	705.2	539.4	388.2	263.9
-27.5°	2534.3	2292.9	1961.6	1640.5	1369.1	1127.6	897.5	688.2	524.0	371.3	254.0
-30°	2480.7	2204.0	1887.8	1578.4	1320.9	1084.8	861.0	667.8	507.0	357.5	242.3
-32.5°	2400.9	2108.4	1804.5	1518.9	1266.1	1035.5	819.6	643.4	487.2	345.7	234.7
-35°	2275.1	2000.6	1715.1	1451.9	1205.3	985.1	780.1	615.0	464.7	330.8	228.2
-37.5°	2139.2	1876.9	1632.6	1379.1	1141.6	930.1	745.2	585.1	439.5	312.9	221.0
-40°	1996.8	1751.9	1526.4	1300.5	1076.1	870.9	705.3	551.3	414.9	291.9	212.1
-42.5°	1847.6	1629.6	1416.5	1209.0	1004.7	821.0	660.6	512.2	385.5	276.2	201.8
-45°	1708.1	1501.4	1300.4	1112.2	928.6	765.3	611.1	469.1	352.7	262.5	193.9
-47.5°	1561.2	1368.3	1183.8	1009.1	859.1	703.4	555.3	429.0	317.5	246.9	190.9
-50°	1410.0	1232.8	1065.0	915.6	778.2	634.6	497.1	385.7	296.5	228.5	187.0
-52.5°	1256.7	1096.6	953.9	822.7	691.0	559.6	443.1	340.9	273.8	218.4	182.5
-55°	1101.9	972.0	848.5	723.1	598.9	489.6	384.9	312.5	249.7	211.6	177.6
-57.5°	969.3	854.3	734.9	617.5	514.1	418.4	341.4	282.7	237.5	204.3	174.2
-60°	837.7	724.6	614.4	522.0	433.9	360.7	306.6	258.0	228.6	197.0	170.0
-62.5°	690.7	593.4	511.5	431.1	369.8	318.9	274.5	245.7	218.6	191.1	165.2
-65°	556.7	482.2	412.4	366.4	320.7	282.2	259.0	232.6	209.6	184.7	160.1
-67.5°	433.2	392.9	352.2	310.8	285.9	264.6	242.6	221.7	200.8	177.8	154.9
-70°	364.3	327.6	303.7	285.0	266.4	247.2	229.9	211.5	191.7	171.1	149.3
-72.5°	315.2	297.6	280.4	263.5	248.5	233.0	217.5	201.0	182.7	164.0	143.3
-75°	288.5	273.7	259.4	245.4	231.9	218.3	204.8	189.9	173.3	156.4	137.0
-77.5°	265.4	252.2	239.5	227.5	216.2	204.6	191.9	178.4	163.5	148.3	130.3
-80°	242.8	231.5	221.1	210.8	200.9	190.6	178.7	166.8	153.4	139.7	123.2
-82.5°	220.9	211.1	202.3	193.5	184.6	175.4	165.2	155.1	143.0	130.8	116.5
-85°	199.8	191.0	183.4	175.6	167.8	159.9	152.2	144.3	134.0	123.6	110.7
-87.5°	182.7	175.2	169.0	162.8	156.3	149.7	142.5	135.2	125.8	116.3	104.6
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.1



REPORT NUMBER: P731605 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	88.1	74.0	59.9	43.4	26.9	15.3	3.7
87.5°	4.0	4.1	4.1	4.0	3.9	4.0	3.7
85°	4.3	4.5	4.5	4.3	4.1	4.3	3.7
82.5°	4.7	4.9	4.9	4.6	4.3	4.6	3.7
80°	5.0	5.3	5.4	4.9	4.6	4.9	3.7
77.5°	5.7	5.8	5.8	5.3	4.8	5.2	3.7
75°	6.4	6.5	6.2	5.6	5.1	5.5	3.7
72.5°	7.1	7.2	6.9	5.9	5.4	5.8	3.7
70°	7.9	7.9	7.6	6.2	5.7	6.1	3.7
67.5°	9.4	8.7	8.3	7.0	6.0	6.4	3.7
65°	11.0	9.9	9.1	7.7	6.4	6.7	3.7
62.5°	12.6	11.5	9.9	8.5	6.8	7.0	3.7
60°	14.4	13.2	10.7	9.2	7.2	7.3	3.7
57.5°	17.1	14.9	12.4	10.0	8.1	7.7	3.7
55°	20.0	16.7	14.1	10.8	8.9	8.0	3.7
52.5°	22.9	18.7	15.8	11.6	9.8	8.3	3.7
50°	25.9	21.5	17.6	12.4	10.7	8.7	3.7
47.5°	29.1	24.3	19.4	13.4	11.6	9.0	3.7
45°	33.7	27.3	21.2	14.8	12.6	9.3	3.7
42.5°	38.4	30.3	23.1	16.2	13.5	9.7	3.7
40°	43.4	33.5	25.3	18.0	14.5	10.0	3.7
37.5°	48.9	36.7	27.8	20.0	15.5	10.3	3.7
35°	54.6	40.8	30.3	22.1	16.5	10.7	3.7
32.5°	61.7	45.3	32.8	24.1	17.5	11.0	3.7
30°	71.8	49.8	35.2	26.1	18.5	11.4	3.7
27.5°	81.8	54.3	38.4	28.2	19.5	11.7	3.7
25°	91.7	58.7	41.6	30.2	20.5	12.0	3.7
22.5°	101.3	63.2	44.7	32.2	21.5	12.3	3.7
20°	110.6	67.9	47.8	34.1	22.5	12.7	3.7
17.5°	119.2	72.3	50.8	36.0	23.4	13.0	3.7
15°	127.1	76.5	53.6	37.9	24.4	13.2	3.7
12.5°	134.5	80.5	56.4	39.7	25.3	13.5	3.7
10°	141.2	84.2	59.1	41.5	26.2	13.8	3.7
7.5°	147.3	87.7	61.7	43.2	27.1	14.0	3.7
5°	152.7	90.9	64.1	44.8	27.9	14.3	3.7
2.5°	157.4	93.9	66.4	46.3	28.7	14.5	3.7
0°	161.4	96.6	68.5	47.7	29.4	14.7	3.7
-2.5°	166.6	100.7	71.5	49.8	30.7	15.3	3.7
-5°	171.0	104.4	74.4	51.8	32.0	15.9	3.7
-7.5°	174.6	107.9	77.1	53.7	33.1	16.4	3.7
-10°	177.3	111.1	79.6	55.5	34.2	17.0	3.7
-12.5°	179.2	113.9	81.9	57.1	35.3	17.5	3.7
-15°	180.3	116.4	84.0	58.6	36.3	17.9	3.7
-17.5°	180.4	118.5	85.9	59.9	37.2	18.4	3.7
-20°	179.7	120.2	87.5	61.2	38.0	18.8	3.7



REPORT NUMBER: P731605 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	178.3	121.6	88.9	62.2	38.7	19.2	3.7
-25°	176.0	122.9	90.1	63.1	39.4	19.5	3.7
-27.5°	172.7	123.9	91.0	63.8	39.9	19.8	3.7
-30°	168.5	124.5	91.7	64.4	40.4	20.1	3.7
-32.5°	163.4	124.8	92.6	64.8	40.8	20.3	3.7
-35°	161.5	124.7	93.3	65.1	41.1	20.5	3.7
-37.5°	161.0	124.6	93.7	65.1	41.3	20.7	3.7
-40°	160.0	124.8	93.9	65.0	41.4	20.8	3.7
-42.5°	158.6	124.8	93.9	64.9	41.4	20.9	3.7
-45°	156.7	124.4	93.8	64.8	41.4	20.9	3.7
-47.5°	154.1	123.7	93.4	64.5	41.2	20.9	3.7
-50°	152.4	122.8	92.8	64.3	41.0	20.9	3.7
-52.5°	150.4	121.6	91.9	64.1	40.6	20.8	3.7
-55°	148.1	119.7	90.7	63.7	40.2	20.7	3.7
-57.5°	145.3	117.6	89.3	63.1	39.6	20.5	3.7
-60°	142.2	115.2	87.7	62.3	39.0	20.3	3.7
-62.5°	138.8	112.4	86.3	61.4	38.5	20.1	3.7
-65°	135.2	109.5	84.8	60.4	37.8	19.8	3.7
-67.5°	131.2	106.5	83.0	59.2	37.0	19.5	3.7
-70°	126.9	103.5	81.1	57.8	36.2	19.1	3.7
-72.5°	122.4	100.2	78.9	56.4	35.2	18.8	3.7
-75°	117.6	96.7	76.5	54.9	34.2	18.4	3.7
-77.5°	112.5	92.9	74.1	53.3	33.2	17.9	3.7
-80°	107.1	89.3	71.6	51.5	32.0	17.5	3.7
-82.5°	102.5	85.7	68.9	49.7	30.8	17.0	3.7
-85°	97.9	81.9	66.0	47.7	29.6	16.4	3.7
-87.5°	93.1	78.0	63.0	45.6	28.3	15.9	3.7
-90°	3.7	3.7	3.7	3.7	3.7	3.7	3.7

(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

