

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: P731597 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-1S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731597 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-40-70-1S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 1S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

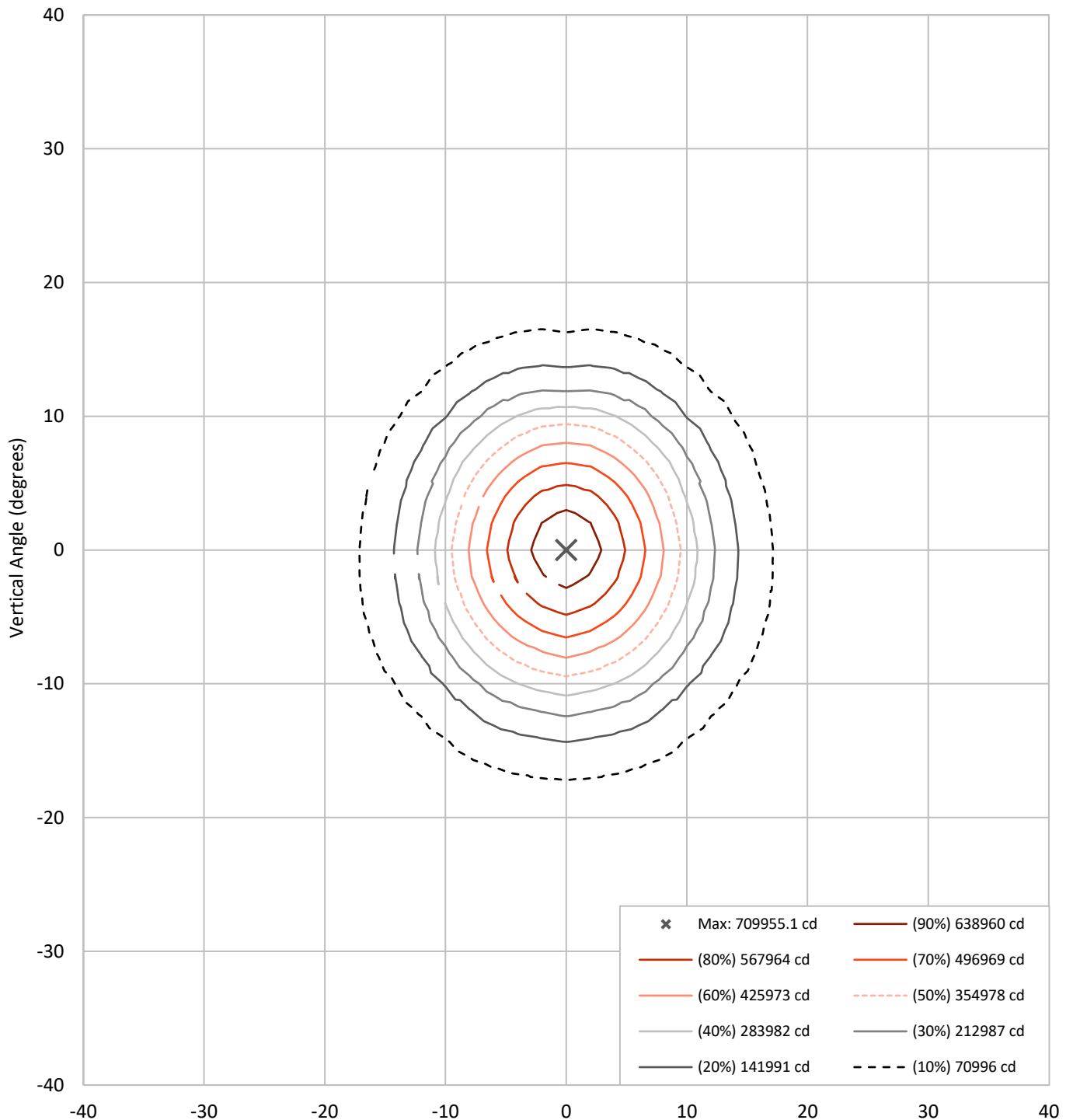
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	93578.9 lumens	Max Intensity:	709955.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	129.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 18.9°V	Field Angle (10%):	34°H x 33.3°V
Beam Lumens:	41481.9 lumens	Field Lumens:	75552.9 lumens
Beam Efficiency:	44.3%	Field Efficiency:	80.7%

Input Watts (W): 724.3
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





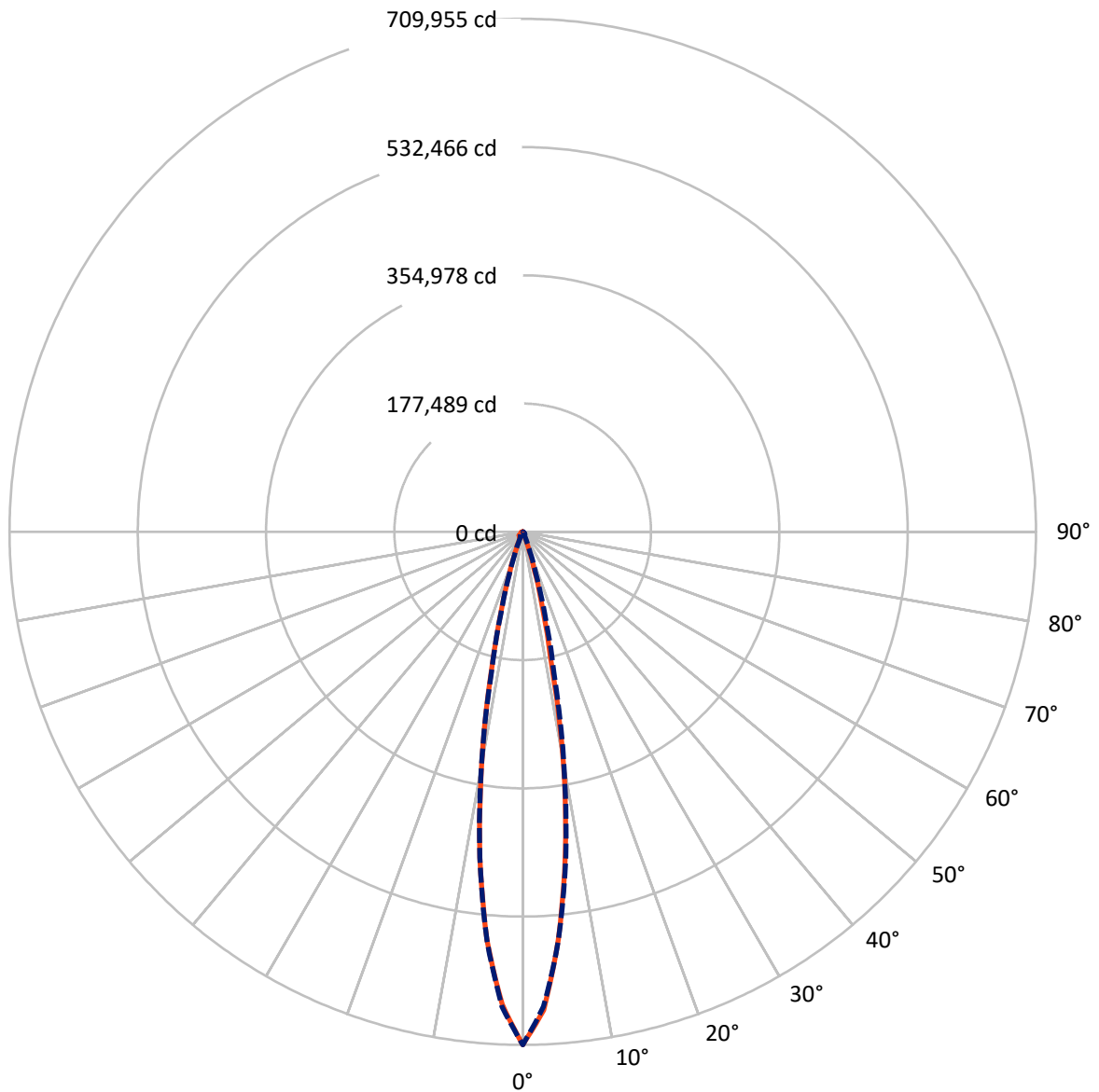
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Lumen Table

90	0.3		1.3		2.4		3.2		3.6		3.2		2.4		1.3		0.3	
80	0.3		1.3		2.4		3.2		3.6		3.2		2.4		1.3		0.3	
70	0.4	0.2	0.3	0.7	0.7	0.5	0.3	0.3	0.3	0.3	0.5	0.7	0.7	0.3	0.2	0.4		
60		0.6	1.1	1.2	1.1	1.0	1.3	1.4	1.4	1.3	1.0	1.1	1.2	1.1	0.6			
50	1.3	1.6	3.5	6.8	10.5	18.2	27.7	30.7	30.7	27.7	18.2	10.5	6.8	3.5	1.6	1.3		
40		3.6	10.1	18.2	38.3	62.6	70.1	73.6	73.6	70.1	62.6	38.3	18.2	10.1	3.6			
30	3.0	6.0	16.5	33.8	80.5	85.4	103.7	171.6	171.6	103.7	85.4	80.5	33.8	16.5	6.0	3.0		
20		8.2	21.2	60.3	106.7	125.9	784.2	3124.9	3124.9	784.2	125.9	106.7	60.3	21.2	8.2			
10	4.5	10.0	24.9	79.8	119.0	234.9	3168.4	13182.1	13182.1	3168.4	234.9	119.0	79.8	24.9	10.0	4.5		
0		11.2	27.8	85.2	132.3	262.7	3330.9	13118.6	13118.6	3330.9	262.7	132.3	85.2	27.8	11.2			
-10	5.3	11.6	29.8	84.1	146.6	180.7	924.8	3385.9	3385.9	924.8	180.7	146.6	84.1	29.8	11.6	5.3		
-20		11.2	30.2	65.1	149.3	182.9	199.6	309.9	309.9	199.6	182.9	149.3	65.1	30.2	11.2			
-30	5.0	10.1	28.2	51.9	109.4	183.8	206.5	208.9	208.9	206.5	183.8	109.4	51.9	28.2	10.1	5.0		
-40		8.4	23.1	45.4	67.8	102.4	151.8	189.3	189.3	151.8	102.4	67.8	45.4	23.1	8.4			
-50	4.2	6.6	16.8	33.1	52.7	68.7	80.1	87.4	87.4	80.1	68.7	52.7	33.1	16.8	6.6	4.2		
-60		5.2	11.0	20.2	31.9	42.8	52.2	58.4	58.4	52.2	42.8	31.9	20.2	11.0	5.2			
-70	2.9	19.7	47.1	74.1	88.4	74.1	47.1	19.7	2.9									
-80		19.7	47.1	74.1	88.4	74.1	47.1	19.7	2.9									
-90	0.3		1.3		2.4		3.2		3.6		3.2		2.4		1.3		0.3	

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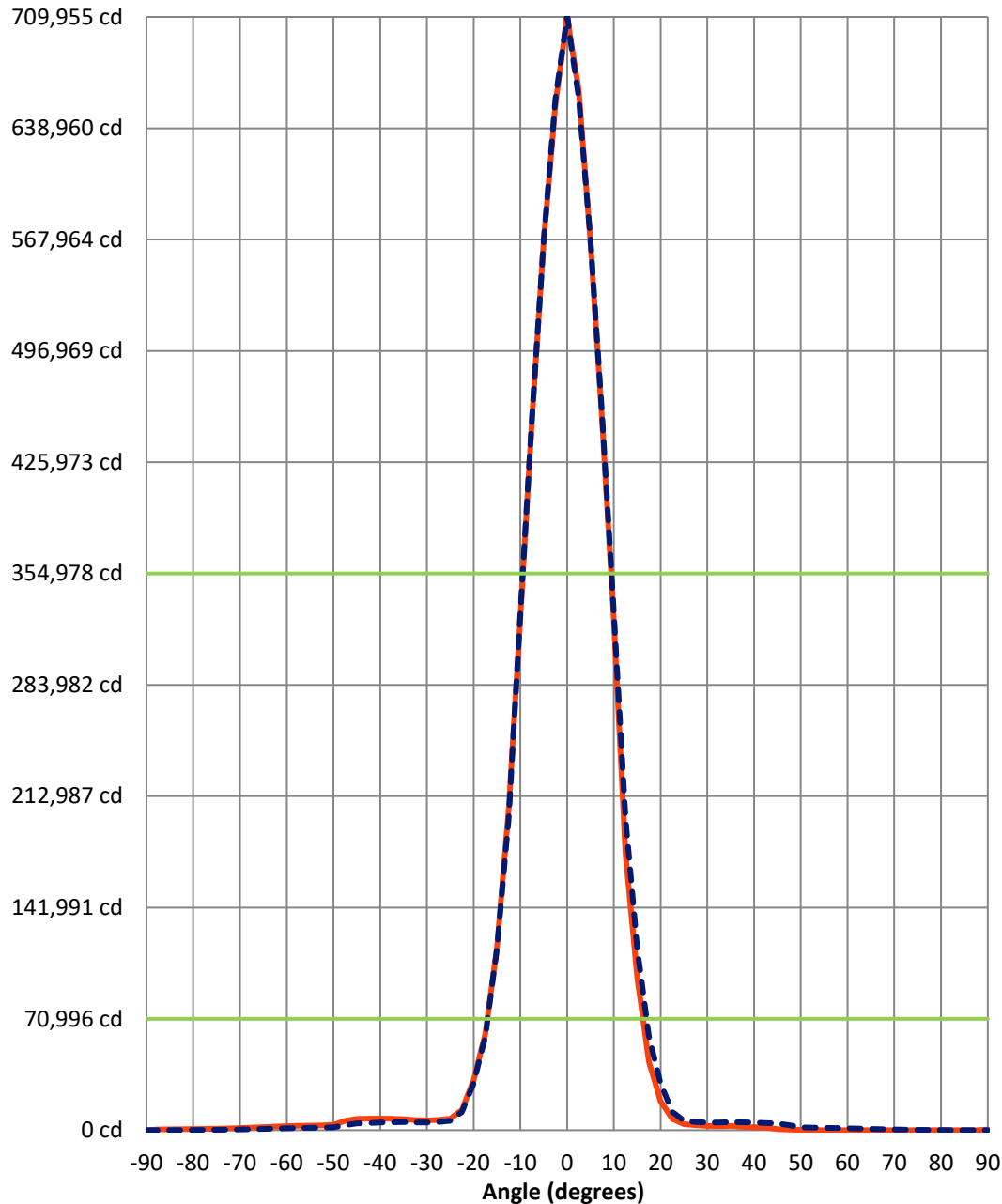
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 19°
 V Angle: 18.9°
 Lumens: 41481.9
 Efficiency: 44.3%

Field:
 H Angle: 34°
 V Angle: 33.3°
 Lumens: 75552.9
 Efficiency: 80.7%

Spill:
 Lumens: 18026
 Efficiency: 19.3%

— 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°	10.2	27.1	44.1	66.1	88.1	110.2	132.2	147.9	163.6	179.2	194.9
87.5°	10.2	8.8	7.1	7.1	7.1	7.0	6.8	6.8	6.8	6.8	6.8
85°	10.2	9.1	7.4	7.5	7.4	7.2	6.8	6.8	6.8	6.8	6.8
82.5°	10.2	9.4	7.7	7.8	7.7	7.4	6.8	6.8	6.8	6.9	6.8
80°	10.2	9.7	8.1	8.1	8.0	7.6	7.0	7.3	7.4	7.3	6.9
77.5°	10.2	10.0	8.4	8.5	8.3	8.1	7.9	8.1	8.1	7.7	7.2
75°	10.2	10.3	8.8	8.8	8.8	9.3	9.0	9.0	8.9	8.8	8.1
72.5°	10.2	10.7	9.2	9.2	10.0	10.5	10.0	10.0	10.5	10.2	9.2
70°	10.2	11.0	9.6	9.7	11.3	11.8	11.3	11.8	12.2	11.7	11.1
67.5°	10.2	11.3	10.0	10.8	12.6	13.1	13.5	13.7	14.0	14.4	13.4
65°	10.2	11.6	10.5	11.9	13.8	15.0	15.8	15.6	17.1	17.4	16.5
62.5°	10.2	12.0	11.0	13.1	15.2	17.5	18.3	18.6	20.5	20.9	20.8
60°	10.2	12.3	11.5	14.2	16.5	20.0	20.9	22.0	24.0	25.8	25.6
57.5°	10.2	12.7	12.7	15.3	18.9	22.7	25.1	25.8	28.8	31.0	33.8
55°	10.2	13.0	13.9	16.5	21.3	25.5	29.7	30.6	34.2	37.7	44.4
52.5°	10.2	13.4	15.1	17.7	23.8	28.6	34.5	36.9	39.7	49.1	55.9
50°	10.2	13.7	16.3	18.8	26.3	33.1	39.6	44.0	47.2	61.2	74.3
47.5°	10.2	14.1	17.6	20.2	28.9	37.7	45.1	51.6	59.1	74.1	94.7
45°	10.2	14.5	19.0	22.1	31.5	42.5	52.2	59.8	73.7	94.0	116.5
42.5°	10.2	14.8	20.4	24.1	34.1	47.3	59.7	71.2	89.1	114.9	148.9
40°	10.2	15.2	21.8	26.7	37.4	52.3	67.4	85.1	107.0	137.1	185.4
37.5°	10.2	15.6	23.2	29.7	41.3	57.4	75.5	99.2	129.4	165.8	224.3
35°	10.2	15.9	24.7	32.8	45.2	63.5	83.7	113.6	152.3	201.8	268.0
32.5°	10.2	16.3	26.1	35.9	49.0	70.0	93.2	128.3	175.5	237.1	313.6
30°	10.2	16.6	27.6	39.1	52.9	76.6	105.1	144.2	199.2	271.6	357.2
27.5°	10.2	17.0	29.1	42.2	58.4	83.2	116.9	163.6	224.9	305.2	398.8
25°	10.2	17.4	30.6	45.4	64.0	89.8	128.7	182.8	253.2	339.8	438.7
22.5°	10.2	17.7	32.1	48.6	69.6	96.8	140.2	201.8	280.4	373.6	482.5
20°	10.2	18.0	33.6	51.8	75.1	104.9	151.5	220.4	306.5	405.5	523.9
17.5°	10.2	18.4	35.1	54.9	80.5	112.6	162.8	238.5	331.3	435.3	562.7
15°	10.2	18.7	36.5	58.0	85.8	120.1	173.8	255.2	354.8	463.1	598.9
12.5°	10.2	19.0	37.9	61.1	90.9	127.2	184.2	269.8	376.1	488.8	632.3
10°	10.2	19.3	39.3	64.0	95.9	134.1	193.9	283.1	395.6	516.8	666.6
7.5°	10.2	19.6	40.6	66.9	100.6	140.5	202.8	295.2	413.6	544.2	706.7
5°	10.2	19.8	41.8	69.6	105.2	146.6	211.1	306.0	430.1	570.0	744.3
2.5°	10.2	20.1	43.0	72.2	109.5	152.3	218.6	315.5	444.8	593.8	778.9
0°	10.2	20.3	44.1	74.6	113.5	157.6	225.4	323.7	457.5	615.1	810.0
-2.5°	10.2	21.3	46.5	78.5	118.6	164.1	233.4	334.8	472.5	631.6	827.4
-5°	10.2	22.3	48.8	82.3	123.4	170.2	240.6	344.3	485.1	645.2	840.8
-7.5°	10.2	23.2	51.0	85.8	127.8	175.9	246.9	352.4	495.4	655.9	850.3
-10°	10.2	24.1	53.1	89.1	132.0	181.0	252.4	358.8	503.1	663.8	855.9
-12.5°	10.2	25.0	55.0	92.2	135.8	185.7	257.0	363.5	508.1	669.1	861.6
-15°	10.2	25.8	56.8	95.1	139.3	189.9	260.7	366.3	511.0	673.8	864.9
-17.5°	10.2	26.6	58.5	97.7	142.5	193.5	263.5	368.5	511.9	675.2	863.6
-20°	10.2	27.4	60.0	100.0	145.3	196.6	265.9	369.5	510.2	673.2	857.4



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	10.2	28.1	61.3	102.1	147.8	199.1	268.1	368.6	505.6	667.6	846.3
-25°	10.2	28.8	62.5	103.9	149.9	201.6	269.2	365.5	498.3	658.5	830.4
-27.5°	10.2	29.4	63.5	105.4	151.7	203.6	269.2	360.3	488.1	646.6	816.9
-30°	10.2	30.0	64.4	106.7	153.2	205.0	268.0	353.0	478.6	632.5	799.6
-32.5°	10.2	30.5	65.0	107.6	154.4	205.8	265.7	349.0	468.5	615.1	778.1
-35°	10.2	31.0	65.5	108.3	155.2	205.9	264.8	345.2	455.8	594.5	752.6
-37.5°	10.2	31.4	65.8	108.6	155.6	205.7	264.3	340.0	440.5	570.7	726.2
-40°	10.2	31.8	65.9	108.6	155.5	205.6	262.9	333.2	422.4	548.7	696.1
-42.5°	10.2	32.1	65.8	108.4	155.0	205.0	260.7	325.0	409.4	524.8	661.0
-45°	10.2	32.3	65.5	107.8	154.2	203.8	257.7	317.9	398.3	497.7	622.6
-47.5°	10.2	32.5	65.1	106.8	152.9	202.0	253.8	313.2	385.3	467.9	588.5
-50°	10.2	32.6	64.4	105.8	151.3	199.6	250.6	307.6	369.6	449.6	550.8
-52.5°	10.2	32.7	63.6	104.4	149.1	196.6	246.9	301.0	358.2	429.1	511.6
-55°	10.2	32.7	62.5	102.8	146.6	193.2	242.4	293.7	348.3	406.4	485.3
-57.5°	10.2	32.6	61.3	100.8	143.6	189.3	237.3	287.4	337.5	391.2	456.5
-60°	10.2	32.5	60.0	98.6	140.2	184.8	231.5	279.8	326.2	377.5	430.5
-62.5°	10.2	32.3	59.3	96.1	136.6	179.8	225.1	271.2	315.9	362.7	413.7
-65°	10.2	32.1	58.6	93.4	132.7	174.2	218.0	261.8	304.7	349.1	395.6
-67.5°	10.2	31.8	57.7	90.4	128.3	168.2	210.3	251.6	292.8	335.0	378.5
-70°	10.2	31.5	56.6	87.1	123.6	161.9	202.0	240.8	279.6	320.1	361.2
-72.5°	10.2	31.1	55.4	84.9	118.5	155.0	193.1	229.3	265.6	303.4	342.7
-75°	10.2	30.7	54.1	82.7	113.2	147.8	183.8	217.1	250.9	286.0	322.2
-77.5°	10.2	30.2	52.7	80.4	109.2	140.1	173.9	204.4	235.4	267.6	300.9
-80°	10.2	29.7	51.2	77.8	105.5	133.9	163.6	191.2	219.2	248.3	278.3
-82.5°	10.2	29.1	49.5	75.1	101.4	128.4	156.0	178.8	202.5	228.3	254.8
-85°	10.2	28.5	47.8	72.3	97.2	122.6	148.3	168.8	189.7	211.0	232.9
-87.5°	10.2	27.8	46.0	69.3	92.8	116.5	140.4	158.5	176.7	195.3	214.1
-90°	10.2	8.5	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8



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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°	209.7	224.6	239.4	254.2	265.2	276.3	287.3	298.3	307.6	316.9	326.2
87.5°	6.4	6.0	5.5	5.1	5.1	5.1	5.1	5.1	4.7	4.3	3.8
85°	6.4	6.0	5.5	5.1	5.1	5.1	5.1	5.1	4.7	4.3	3.8
82.5°	6.4	6.0	5.6	5.1	5.1	5.1	5.1	5.1	4.8	4.5	4.3
80°	6.4	6.0	5.8	5.7	5.7	5.6	5.4	5.2	5.1	5.2	5.2
77.5°	7.0	6.9	6.8	6.7	6.5	6.2	6.1	6.0	6.0	5.9	5.6
75°	7.8	7.8	7.6	7.1	6.7	6.7	6.8	6.8	6.5	6.1	5.7
72.5°	8.8	8.8	8.3	7.4	7.1	7.3	7.3	7.0	7.4	8.4	9.3
70°	10.2	10.0	9.8	9.0	8.1	8.5	9.9	11.2	12.4	14.5	17.4
67.5°	12.0	12.5	12.1	11.2	11.1	12.8	14.4	19.7	25.6	28.8	30.1
65°	15.1	15.3	16.1	16.4	15.4	20.0	26.2	33.3	39.9	41.1	40.1
62.5°	18.7	20.6	22.0	23.3	25.1	29.8	36.9	44.0	51.2	49.1	42.3
60°	25.8	26.9	30.9	34.8	36.1	38.7	46.5	50.4	52.7	51.3	40.0
57.5°	34.7	36.6	43.2	47.8	49.2	46.3	49.1	51.6	51.3	45.3	34.7
55°	47.1	49.5	57.6	63.6	63.3	52.1	51.4	53.9	50.1	44.0	34.3
52.5°	64.8	66.3	75.3	81.7	79.4	67.8	59.7	63.5	62.9	55.0	46.7
50°	84.4	91.9	95.3	104.3	103.7	94.4	78.9	86.7	100.3	97.8	86.0
47.5°	112.2	122.0	122.4	133.2	138.2	146.4	133.2	149.7	169.9	211.3	198.1
45°	145.5	161.7	162.9	173.0	198.6	229.4	241.8	240.8	343.1	380.0	407.0
42.5°	182.3	208.2	219.2	218.5	300.7	347.5	374.1	458.6	536.4	559.9	572.5
40°	228.9	260.1	283.9	337.0	422.2	486.9	553.7	643.9	686.4	690.5	690.7
37.5°	280.0	325.5	363.8	454.2	562.9	634.7	717.7	756.5	785.9	787.6	821.0
35°	334.7	396.0	466.9	567.7	687.4	768.9	816.9	852.0	868.1	904.9	1067.0
32.5°	397.6	471.4	564.0	676.2	790.6	873.6	902.2	932.5	971.6	1081.0	1556.8
30°	460.9	556.3	656.2	777.0	892.9	951.4	981.6	1019.7	1080.9	1508.0	2167.2
27.5°	514.6	635.9	744.9	870.9	989.1	1029.6	1064.7	1121.6	1382.3	1981.4	2897.2
25°	566.0	699.1	826.9	963.5	1061.4	1106.2	1150.2	1227.4	1736.2	2685.5	3310.7
22.5°	617.5	763.0	901.3	1055.0	1133.4	1179.8	1247.4	1536.0	2247.8	3389.1	3683.0
20°	670.3	826.9	975.2	1129.0	1202.5	1250.8	1343.7	1885.7	2873.0	3689.3	3961.5
17.5°	722.1	888.4	1044.6	1181.2	1257.5	1325.8	1472.9	2237.2	3435.8	3985.6	4175.1
15°	772.4	947.3	1107.8	1231.7	1312.2	1406.5	1776.3	2704.9	3800.9	4251.5	4431.4
12.5°	820.6	1003.1	1164.8	1280.2	1366.9	1486.6	2093.9	3167.2	4045.3	4460.8	4633.1
10°	866.1	1055.5	1216.0	1326.4	1420.9	1565.0	2414.1	3557.5	4247.1	4602.4	4733.8
7.5°	909.2	1100.8	1261.8	1370.1	1473.6	1640.3	2724.7	3879.5	4406.2	4722.4	4803.4
5°	946.8	1137.7	1304.0	1417.2	1526.5	1707.1	2990.7	4137.2	4529.7	4822.4	4875.1
2.5°	979.2	1169.5	1342.3	1462.6	1577.6	1760.4	3119.2	4241.7	4545.3	4866.4	4949.6
0°	1006.6	1196.4	1376.0	1504.8	1625.1	1806.5	3192.7	4295.9	4526.3	4878.8	5027.9
-2.5°	1029.0	1233.0	1424.1	1549.2	1670.6	1850.1	3187.3	4337.7	4574.0	4991.0	5328.5
-5°	1046.7	1263.8	1466.4	1590.4	1712.2	1887.5	3130.1	4325.7	4638.9	5090.2	5513.8
-7.5°	1059.4	1287.9	1502.2	1629.2	1753.1	1930.2	3089.2	4377.6	4828.0	5208.1	5588.9
-10°	1067.9	1303.8	1524.0	1665.4	1794.4	1972.4	3001.2	4355.8	5004.8	5326.2	5660.9
-12.5°	1077.6	1312.7	1538.0	1696.9	1830.3	2005.6	2845.9	4251.8	5168.4	5453.6	5731.4
-15°	1081.6	1315.7	1545.4	1723.4	1860.6	2029.3	2620.4	4059.2	5277.8	5522.9	5776.5
-17.5°	1079.8	1312.9	1546.1	1744.7	1884.9	2043.0	2322.5	3702.4	5106.0	5550.1	5818.5
-20°	1071.9	1304.2	1539.9	1760.3	1903.2	2060.0	2274.6	3292.3	4636.8	5529.8	5848.6



REPORT NUMBER: P731597 (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°	1057.9	1289.7	1525.6	1751.6	1923.5	2081.7	2276.8	2867.0	4083.1	5460.8	5850.9
-25°	1039.7	1269.2	1503.5	1742.1	1941.5	2096.3	2269.9	2495.5	3534.9	4865.2	5792.4
-27.5°	1017.8	1241.7	1481.8	1724.2	1955.8	2105.9	2271.6	2477.9	3051.4	4177.0	5569.7
-30°	990.2	1210.9	1451.3	1696.2	1935.7	2116.0	2272.1	2437.0	2648.8	3556.2	4756.6
-32.5°	959.0	1173.4	1411.3	1654.8	1898.3	2122.9	2259.0	2408.4	2590.4	2916.4	3941.8
-35°	927.6	1134.8	1362.3	1603.8	1850.9	2082.3	2247.7	2381.5	2530.7	2729.0	3197.1
-37.5°	897.0	1089.7	1305.0	1542.5	1785.0	2009.5	2226.9	2359.1	2495.9	2635.4	2830.1
-40°	860.9	1038.3	1246.5	1471.3	1699.3	1923.2	2138.9	2336.4	2462.0	2582.9	2709.1
-42.5°	819.8	992.3	1183.4	1388.9	1604.1	1821.6	2040.7	2248.2	2424.6	2532.8	2647.9
-45°	775.3	940.6	1115.6	1305.0	1500.5	1710.7	1921.8	2133.4	2322.0	2490.5	2593.5
-47.5°	725.3	883.5	1050.9	1214.5	1396.8	1590.2	1793.7	1992.7	2186.9	2366.1	2541.2
-50°	673.3	821.4	975.8	1128.6	1291.3	1468.1	1655.1	1843.7	2030.0	2212.3	2384.5
-52.5°	626.9	753.3	895.9	1041.2	1189.1	1346.6	1512.8	1683.5	1862.0	2039.3	2199.4
-55°	576.8	692.0	811.0	947.9	1088.4	1230.1	1369.0	1522.8	1682.3	1849.3	1998.8
-57.5°	536.3	628.6	733.0	849.1	980.8	1114.0	1236.4	1360.1	1502.0	1650.1	1780.0
-60°	500.5	573.3	658.2	759.0	867.1	987.4	1102.6	1216.9	1331.4	1444.5	1567.3
-62.5°	465.7	529.0	595.6	672.0	767.6	860.1	961.5	1067.1	1172.7	1274.1	1372.3
-65°	444.6	488.8	545.5	607.9	670.3	750.8	832.9	914.1	1007.3	1098.9	1188.7
-67.5°	422.0	463.7	505.8	551.8	609.1	662.0	714.5	787.9	860.5	929.3	999.9
-70°	400.7	437.8	476.9	516.8	555.3	594.4	642.5	690.1	736.9	787.4	848.1
-72.5°	379.0	413.2	448.3	484.1	518.8	551.3	583.8	616.4	654.5	695.7	735.8
-75°	355.5	387.6	419.8	452.4	482.5	511.2	540.4	569.9	598.9	627.6	656.4
-77.5°	330.5	359.6	389.2	419.2	445.9	471.2	496.8	522.7	548.1	573.1	598.1
-80°	304.6	330.8	357.1	383.7	406.8	429.1	451.7	474.3	496.6	518.7	540.6
-82.5°	277.6	300.5	323.6	347.0	366.7	385.9	405.1	424.3	443.1	461.9	480.7
-85°	251.4	269.6	289.3	309.2	325.7	342.1	358.4	374.6	390.3	406.0	421.5
-87.5°	230.7	247.3	263.8	280.3	293.2	306.0	318.9	331.7	343.7	355.7	367.8
-90°	6.4	6.0	5.5	5.1	5.1	5.1	5.1	5.1	4.7	4.3	3.8



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	335.5	341.9	348.3	354.6	361.0	366.5	372.0	377.5	383.0	386.4	389.8
87.5°	3.4	3.3	3.3	3.3	3.2	2.9	2.5	2.1	1.7	1.7	1.7
85°	3.4	3.4	3.4	3.4	3.4	3.0	2.6	2.1	1.7	1.7	1.7
82.5°	4.2	4.1	3.9	3.7	3.4	3.3	3.3	3.2	3.2	3.3	3.3
80°	5.1	4.7	4.3	3.9	3.5	3.4	3.4	3.4	3.4	3.4	3.4
77.5°	5.2	4.8	4.4	3.9	3.5	3.4	3.4	3.4	3.4	3.4	3.4
75°	5.3	5.1	5.4	5.4	5.1	5.1	5.1	5.0	4.8	4.6	4.2
72.5°	10.1	10.5	10.4	10.7	10.7	11.0	11.4	11.7	11.7	11.8	11.9
70°	19.1	19.7	20.2	19.9	18.7	17.7	17.3	16.8	16.3	16.7	17.7
67.5°	29.0	27.0	25.9	24.5	21.8	19.5	18.1	16.7	15.2	14.5	14.3
65°	36.0	28.4	24.7	21.9	19.7	17.1	14.8	12.8	10.9	9.8	9.3
62.5°	34.2	24.3	19.3	16.2	13.6	11.2	9.3	7.8	6.7	6.2	6.2
60°	29.2	19.1	13.5	10.9	8.2	5.4	5.0	4.8	4.4	4.0	4.3
57.5°	26.1	17.2	10.5	10.2	8.8	6.4	5.6	5.6	4.7	3.4	3.9
55°	29.1	24.5	17.0	17.5	17.1	14.4	12.3	14.7	14.1	11.1	12.2
52.5°	43.6	50.0	40.8	37.9	51.7	51.3	40.2	54.8	62.9	61.6	62.8
50°	102.7	116.0	130.0	119.1	146.2	162.4	158.8	177.9	197.5	197.1	203.2
47.5°	243.3	280.0	284.0	291.3	322.3	361.6	393.6	416.1	427.7	422.9	426.3
45°	435.3	443.6	462.6	504.7	557.4	620.8	669.1	697.1	791.7	858.8	898.1
42.5°	577.0	602.8	649.4	760.5	842.0	1029.1	1255.4	1343.2	1454.5	1510.9	1514.4
40°	719.1	784.8	977.3	1179.6	1619.1	1945.9	1965.4	2104.0	2167.8	2097.4	2086.9
37.5°	953.8	1197.6	1528.3	1996.1	2200.5	2289.3	2338.1	2355.7	2368.6	2356.9	2350.8
35°	1416.3	1840.3	2165.0	2317.6	2410.0	2412.9	2424.2	2422.6	2407.5	2399.6	2382.8
32.5°	2098.5	2502.9	2512.8	2501.0	2520.3	2509.3	2488.1	2478.2	2445.4	2425.7	2432.4
30°	2801.9	2804.2	2764.2	2671.5	2625.2	2611.0	2580.3	2555.0	2523.9	2528.6	2636.8
27.5°	3080.9	3046.7	2990.9	2910.9	2755.6	2725.1	2700.5	2689.9	2820.0	2938.8	3044.8
25°	3393.3	3304.6	3274.0	3204.2	3044.4	2867.5	2945.4	3067.7	3237.7	3414.8	3585.6
22.5°	3663.3	3599.3	3579.6	3553.7	3292.9	3216.7	3323.4	3524.6	3756.9	4064.5	4943.0
20°	3929.5	3860.3	3837.7	3707.5	3570.8	3589.7	3787.9	4138.8	4788.5	7122.8	9973.4
17.5°	4153.2	4081.6	4004.3	3852.5	3809.0	3999.2	4395.8	5628.4	8694.7	16356.7	24144.2
15°	4361.7	4267.7	4136.2	4036.6	4119.0	4473.2	5455.6	9654.9	19587.2	32448.0	48663.1
12.5°	4547.0	4403.1	4219.0	4167.4	4418.0	5014.6	8867.6	18945.5	34138.6	52460.3	90527.5
10°	4675.8	4489.4	4328.9	4418.1	4816.5	6418.1	12760.8	28403.8	50880.4	91859.4	139251.8
7.5°	4731.3	4562.5	4469.1	4660.6	5192.6	8242.4	19210.0	39282.5	71862.8	126965.4	202581.1
5°	4794.1	4677.5	4625.4	4900.7	5554.8	9728.7	23848.1	48437.5	94300.9	159937.3	257311.3
2.5°	4920.9	4810.0	4773.7	5111.4	5871.6	11114.5	27472.5	55554.9	109166.6	187450.5	305879.6
0°	5144.9	4914.4	4885.6	5216.0	5998.9	11745.4	29850.7	59847.1	116237.2	199222.6	329776.0
-2.5°	5322.7	5048.1	4993.3	5288.0	6055.0	11436.2	29609.5	59699.2	113352.5	195288.0	314600.7
-5°	5477.9	5202.4	5126.7	5400.5	6178.2	11424.7	28040.8	54777.4	101429.8	171602.9	265132.6
-7.5°	5615.9	5377.8	5265.7	5483.6	6194.4	10231.2	22680.4	45099.0	81075.4	133978.1	205209.7
-10°	5761.5	5578.6	5425.9	5571.7	6125.6	8140.5	15173.0	32509.1	57738.6	97159.3	146037.5
-12.5°	5927.9	5835.7	5611.3	5632.5	6032.4	6869.4	11214.4	22696.2	40085.8	61204.1	96634.0
-15°	6069.1	6064.9	5877.0	5817.2	6016.0	6552.7	7824.0	12603.9	24315.9	39343.3	56869.8
-17.5°	6098.5	6248.7	6176.8	5994.1	6005.8	6306.7	6830.7	8352.4	12214.1	21647.6	32075.7
-20°	6117.5	6438.3	6445.8	6297.6	6167.6	6134.0	6373.6	6817.4	7680.3	10868.2	15064.3



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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°	6146.5	6451.4	6668.3	6627.3	6372.2	6223.0	6169.4	6337.5	6629.5	7040.9	8402.3
-25°	6160.3	6444.8	6755.3	6840.5	6733.6	6460.5	6256.2	6142.1	6245.4	6376.0	6642.3
-27.5°	6101.5	6434.7	6735.7	6988.1	7018.8	6840.2	6540.0	6296.4	6201.7	6112.1	6221.7
-30°	6003.9	6376.0	6690.8	7001.3	7125.5	7068.3	6911.1	6713.4	6482.7	6303.2	6240.2
-32.5°	5204.6	6288.3	6610.7	6879.8	7084.6	7143.2	7144.8	7038.9	6940.3	6801.9	6639.8
-35°	4287.9	5490.1	6539.3	6674.7	6862.5	7056.5	7200.5	7205.4	7193.9	7128.3	7060.0
-37.5°	3333.2	4453.5	5462.6	6270.3	6554.3	6782.6	7029.2	7195.9	7300.5	7281.7	7269.1
-40°	2902.0	3255.0	4199.0	5022.5	5713.2	6363.2	6630.3	6929.8	7170.7	7254.5	7311.1
-42.5°	2768.8	2919.8	3073.5	3697.4	4409.1	5035.1	5623.7	6185.1	6686.3	6970.3	7168.0
-45°	2695.7	2779.8	2873.9	3012.8	3132.9	3651.3	4178.8	4691.1	5316.4	5892.0	6391.2
-47.5°	2628.1	2693.9	2766.7	2838.2	2904.9	2999.0	3080.6	3226.0	3694.4	4166.7	4640.6
-50°	2519.3	2627.9	2688.4	2741.7	2788.9	2832.6	2870.3	2936.0	3013.7	3081.5	3150.0
-52.5°	2337.4	2459.7	2575.8	2663.8	2700.7	2737.0	2774.2	2823.9	2869.9	2912.0	2944.4
-55°	2133.4	2257.2	2374.3	2463.4	2543.4	2617.0	2682.7	2726.8	2769.7	2811.1	2842.7
-57.5°	1909.1	2035.3	2149.8	2235.3	2315.3	2389.5	2461.7	2531.1	2594.7	2652.0	2700.7
-60°	1682.0	1788.5	1891.9	1982.3	2064.8	2139.1	2210.5	2278.9	2341.3	2397.6	2446.5
-62.5°	1468.7	1567.3	1649.1	1723.1	1794.1	1862.7	1935.0	2001.5	2061.9	2117.2	2167.8
-65°	1276.3	1361.4	1423.3	1481.2	1535.9	1594.8	1658.4	1717.0	1770.4	1820.0	1865.7
-67.5°	1078.5	1152.2	1206.6	1256.7	1303.4	1350.3	1401.1	1448.5	1492.1	1533.8	1572.9
-70°	906.8	958.1	996.1	1034.5	1076.0	1118.3	1162.0	1201.9	1237.7	1271.9	1303.4
-72.5°	774.7	806.3	832.9	865.7	895.3	926.9	959.4	989.4	1016.9	1043.7	1068.8
-75°	685.3	708.5	730.2	750.5	769.5	792.0	815.5	837.6	858.5	878.0	896.4
-77.5°	623.1	641.1	656.0	670.2	683.7	701.2	719.5	737.4	754.8	769.5	783.1
-80°	562.4	576.8	589.6	601.9	613.7	628.8	644.2	659.2	673.7	687.1	699.9
-82.5°	499.4	511.2	522.0	532.5	542.6	555.4	568.1	580.5	592.5	603.5	614.1
-85°	436.8	445.8	454.3	462.5	470.5	480.9	491.3	501.4	511.3	518.5	525.3
-87.5°	379.9	386.5	393.0	399.3	405.5	413.0	420.5	427.9	435.3	440.1	444.8
-90°	3.4	3.0	2.6	2.1	1.7	1.7	1.7	1.7	1.7	1.7	1.7



REPORT NUMBER: P731597 (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°
90°	393.1	396.5	395.7	394.8	395.7	396.5	393.1	389.8	386.4	383.0	377.5
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.1
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.1
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.2	3.2
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
75°	3.8	3.4	3.4	3.4	3.4	3.4	3.8	4.2	4.6	4.8	5.0
72.5°	11.9	11.7	11.8	11.9	11.8	11.7	11.9	11.9	11.8	11.7	11.7
70°	18.8	19.9	20.2	20.3	20.2	19.9	18.8	17.7	16.7	16.3	16.8
67.5°	14.1	13.8	12.9	11.9	12.9	13.8	14.1	14.3	14.5	15.2	16.7
65°	9.0	8.7	8.5	8.5	8.5	8.7	9.0	9.3	9.8	10.9	12.8
62.5°	6.4	6.8	6.8	6.8	6.8	6.8	6.4	6.2	6.2	6.7	7.8
60°	4.7	5.1	5.1	5.1	5.1	5.1	4.7	4.3	4.0	4.4	4.8
57.5°	4.4	4.9	5.1	5.1	5.1	4.9	4.4	3.9	3.4	4.7	5.6
55°	12.9	13.2	12.8	11.9	12.8	13.2	12.9	12.2	11.1	14.1	14.7
52.5°	61.8	57.0	49.7	40.7	49.7	57.0	61.8	62.8	61.6	62.9	54.8
50°	215.1	220.8	215.7	200.0	215.7	220.8	215.1	203.2	197.1	197.5	177.9
47.5°	443.0	447.9	432.4	396.5	432.4	447.9	443.0	426.3	422.9	427.7	416.1
45°	927.3	920.2	840.4	674.5	840.4	920.2	927.3	898.1	858.8	791.7	697.1
42.5°	1599.2	1670.5	1712.5	1713.3	1712.5	1670.5	1599.2	1514.4	1510.9	1454.5	1343.2
40°	2069.9	1986.4	1895.2	1881.0	1895.2	1986.4	2069.9	2086.9	2097.4	2167.8	2104.0
37.5°	2336.6	2354.2	2344.1	2147.1	2344.1	2354.2	2336.6	2350.8	2356.9	2368.6	2355.7
35°	2421.5	2553.9	2690.2	2718.2	2690.2	2553.9	2421.5	2382.8	2399.6	2407.5	2422.6
32.5°	2462.5	2507.9	2520.3	2525.0	2520.3	2507.9	2462.5	2432.4	2425.7	2445.4	2478.2
30°	2686.7	2716.3	2712.1	2706.3	2712.1	2716.3	2686.7	2636.8	2528.6	2523.9	2555.0
27.5°	3094.9	3143.9	3165.8	3180.8	3165.8	3143.9	3094.9	3044.8	2938.8	2820.0	2689.9
25°	3679.0	3754.0	3805.5	3828.1	3805.5	3754.0	3679.0	3585.6	3414.8	3237.7	3067.7
22.5°	5957.6	6477.5	6992.0	7258.0	6992.0	6477.5	5957.6	4943.0	4064.5	3756.9	3524.6
20°	14872.7	17118.9	18144.7	18444.2	18144.7	17118.9	14872.7	9973.4	7122.8	4788.5	4138.8
17.5°	34635.2	43149.9	48845.1	43855.0	48845.1	43149.9	34635.2	24144.2	16356.7	8694.7	5628.4
15°	70890.3	92455.2	104522.2	97732.0	104522.2	92455.2	70890.3	48663.1	32448.0	19587.2	9654.9
12.5°	127724.0	161379.2	183983.3	176529.2	183983.3	161379.2	127724.0	90527.5	52460.3	34138.6	18945.5
10°	201034.8	268710.2	313772.6	324912.5	313772.6	268710.2	201034.8	139251.8	91859.4	50880.4	28403.8
7.5°	291739.9	375531.4	441672.1	451908.8	441672.1	375531.4	291739.9	202581.1	126965.4	71862.8	39282.5
5°	380476.3	479381.4	548199.3	566065.1	548199.3	479381.4	380476.3	257311.3	159937.3	94300.9	48437.5
2.5°	435552.6	543202.6	626097.7	662610.9	626097.7	543202.6	435552.6	305879.6	187450.5	109166.6	55554.9
0°	455210.9	567637.7	657578.7	709955.1	657578.7	567637.7	455210.9	329776.0	199222.6	116237.2	59847.1
-2.5°	439969.5	541782.5	617708.7	654119.1	617708.7	541782.5	439969.5	314600.7	195288.0	113352.5	59699.2
-5°	374729.7	475888.3	537663.3	567322.5	537663.3	475888.3	374729.7	265132.6	171602.9	101429.8	54777.4
-7.5°	292817.9	373783.0	427127.0	454110.2	427127.0	373783.0	292817.9	205209.7	133978.1	81075.4	45099.0
-10°	204884.6	269119.9	305078.0	327095.2	305078.0	269119.9	204884.6	146037.5	97159.3	57738.6	32509.1
-12.5°	133308.0	170696.7	190835.7	204942.0	190835.7	170696.7	133308.0	96634.0	61204.1	40085.8	22696.2
-15°	80925.9	99147.6	110081.4	116935.4	110081.4	99147.6	80925.9	56869.8	39343.3	24315.9	12603.9
-17.5°	45168.0	52994.5	58536.2	61602.8	58536.2	52994.5	45168.0	32075.7	21647.6	12214.1	8352.4
-20°	22412.5	27363.6	30615.6	31980.8	30615.6	27363.6	22412.5	15064.3	10868.2	7680.3	6817.4



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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°	10343.5	11666.1	12541.6	12958.7	12541.6	11666.1	10343.5	8402.3	7040.9	6629.5	6337.5
-25°	6901.1	7108.7	7261.2	7327.5	7261.2	7108.7	6901.1	6642.3	6376.0	6245.4	6142.1
-27.5°	6321.0	6431.0	6522.1	6558.2	6522.1	6431.0	6321.0	6221.7	6112.1	6201.7	6296.4
-30°	6191.9	6196.7	6222.5	6222.6	6222.5	6196.7	6191.9	6240.2	6303.2	6482.7	6713.4
-32.5°	6517.2	6445.8	6414.6	6448.0	6414.6	6445.8	6517.2	6639.8	6801.9	6940.3	7038.9
-35°	7014.4	6995.1	6996.7	7032.7	6996.7	6995.1	7014.4	7060.0	7128.3	7193.9	7205.4
-37.5°	7272.4	7287.5	7304.6	7308.9	7304.6	7287.5	7272.4	7269.1	7281.7	7300.5	7195.9
-40°	7343.9	7373.6	7395.9	7403.8	7395.9	7373.6	7343.9	7311.1	7254.5	7170.7	6929.8
-42.5°	7255.2	7314.3	7345.5	7352.9	7345.5	7314.3	7255.2	7168.0	6970.3	6686.3	6185.1
-45°	6753.7	7016.7	7165.4	7205.5	7165.4	7016.7	6753.7	6391.2	5892.0	5316.4	4691.1
-47.5°	5101.6	5514.4	5801.8	5934.6	5801.8	5514.4	5101.6	4640.6	4166.7	3694.4	3226.0
-50°	3221.9	3289.9	3340.8	3372.3	3340.8	3289.9	3221.9	3150.0	3081.5	3013.7	2936.0
-52.5°	2972.4	2997.4	3012.0	3018.1	3012.0	2997.4	2972.4	2944.4	2912.0	2869.9	2823.9
-55°	2869.7	2892.8	2903.0	2904.6	2903.0	2892.8	2869.7	2842.7	2811.1	2769.7	2726.8
-57.5°	2742.8	2778.0	2793.6	2796.1	2793.6	2778.0	2742.8	2700.7	2652.0	2594.7	2531.1
-60°	2487.9	2522.0	2538.8	2545.3	2538.8	2522.0	2487.9	2446.5	2397.6	2341.3	2278.9
-62.5°	2211.7	2248.9	2260.2	2258.9	2260.2	2248.9	2211.7	2167.8	2117.2	2061.9	2001.5
-65°	1905.7	1939.7	1949.5	1948.8	1949.5	1939.7	1905.7	1865.7	1820.0	1770.4	1717.0
-67.5°	1607.6	1637.6	1648.0	1650.6	1648.0	1637.6	1607.6	1572.9	1533.8	1492.1	1448.5
-70°	1331.0	1354.7	1360.7	1360.8	1360.7	1354.7	1331.0	1303.4	1271.9	1237.7	1201.9
-72.5°	1091.6	1112.0	1115.6	1115.1	1115.6	1112.0	1091.6	1068.8	1043.7	1016.9	989.4
-75°	913.8	930.0	930.6	928.7	930.6	930.0	913.8	896.4	878.0	858.5	837.6
-77.5°	795.9	807.9	810.4	811.7	810.4	807.9	795.9	783.1	769.5	754.8	737.4
-80°	712.0	723.6	723.3	721.9	723.3	723.6	712.0	699.9	687.1	673.7	659.2
-82.5°	624.4	634.2	634.4	633.8	634.4	634.2	624.4	614.1	603.5	592.5	580.5
-85°	531.9	538.2	537.9	537.2	537.9	538.2	531.9	525.3	518.5	511.3	501.4
-87.5°	449.5	454.0	454.1	454.2	454.1	454.0	449.5	444.8	440.1	435.3	427.9
-90°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	372.0	366.5	361.0	354.6	348.3	341.9	335.5	326.2	316.9	307.6	298.3
87.5°	2.5	2.9	3.2	3.3	3.3	3.3	3.4	3.8	4.3	4.7	5.1
85°	2.6	3.0	3.4	3.4	3.4	3.4	3.4	3.8	4.3	4.7	5.1
82.5°	3.3	3.3	3.4	3.7	3.9	4.1	4.2	4.3	4.5	4.8	5.1
80°	3.4	3.4	3.5	3.9	4.3	4.7	5.1	5.2	5.2	5.1	5.2
77.5°	3.4	3.4	3.5	3.9	4.4	4.8	5.2	5.6	5.9	6.0	6.0
75°	5.1	5.1	5.1	5.4	5.4	5.1	5.3	5.7	6.1	6.5	6.8
72.5°	11.4	11.0	10.7	10.7	10.4	10.5	10.1	9.3	8.4	7.4	7.0
70°	17.3	17.7	18.7	19.9	20.2	19.7	19.1	17.4	14.5	12.4	11.2
67.5°	18.1	19.5	21.8	24.5	25.9	27.0	29.0	30.1	28.8	25.6	19.7
65°	14.8	17.1	19.7	21.9	24.7	28.4	36.0	40.1	41.1	39.9	33.3
62.5°	9.3	11.2	13.6	16.2	19.3	24.3	34.2	42.3	49.1	51.2	44.0
60°	5.0	5.4	8.2	10.9	13.5	19.1	29.2	40.0	51.3	52.7	50.4
57.5°	5.6	6.4	8.8	10.2	10.5	17.2	26.1	34.7	45.3	51.3	51.6
55°	12.3	14.4	17.1	17.5	17.0	24.5	29.1	34.3	44.0	50.1	53.9
52.5°	40.2	51.3	51.7	37.9	40.8	50.0	43.6	46.7	55.0	62.9	63.5
50°	158.8	162.4	146.2	119.1	130.0	116.0	102.7	86.0	97.8	100.3	86.7
47.5°	393.6	361.6	322.3	291.3	284.0	280.0	243.3	198.1	211.3	169.9	149.7
45°	669.1	620.8	557.4	504.7	462.6	443.6	435.3	407.0	380.0	343.1	240.8
42.5°	1255.4	1029.1	842.0	760.5	649.4	602.8	577.0	572.5	559.9	536.4	458.6
40°	1965.4	1945.9	1619.1	1179.6	977.3	784.8	719.1	690.7	690.5	686.4	643.9
37.5°	2338.1	2289.3	2200.5	1996.1	1528.3	1197.6	953.8	821.0	787.6	785.9	756.5
35°	2424.2	2412.9	2410.0	2317.6	2165.0	1840.3	1416.3	1067.0	904.9	868.1	852.0
32.5°	2488.1	2509.3	2520.3	2501.0	2512.8	2502.9	2098.5	1556.8	1081.0	971.6	932.5
30°	2580.3	2611.0	2625.2	2671.5	2764.2	2804.2	2801.9	2167.2	1508.0	1080.9	1019.7
27.5°	2700.5	2725.1	2755.6	2910.9	2990.9	3046.7	3080.9	2897.2	1981.4	1382.3	1121.6
25°	2945.4	2867.5	3044.4	3204.2	3274.0	3304.6	3393.3	3310.7	2685.5	1736.2	1227.4
22.5°	3323.4	3216.7	3292.9	3553.7	3579.6	3599.3	3663.3	3683.0	3389.1	2247.8	1536.0
20°	3787.9	3589.7	3570.8	3707.5	3837.7	3860.3	3929.5	3961.5	3689.3	2873.0	1885.7
17.5°	4395.8	3999.2	3809.0	3852.5	4004.3	4081.6	4153.2	4175.1	3985.6	3435.8	2237.2
15°	5455.6	4473.2	4119.0	4036.6	4136.2	4267.7	4361.7	4431.4	4251.5	3800.9	2704.9
12.5°	8867.6	5014.6	4418.0	4167.4	4219.0	4403.1	4547.0	4633.1	4460.8	4045.3	3167.2
10°	12760.8	6418.1	4816.5	4418.1	4328.9	4489.4	4675.8	4733.8	4602.4	4247.1	3557.5
7.5°	19210.0	8242.4	5192.6	4660.6	4469.1	4562.5	4731.3	4803.4	4722.4	4406.2	3879.5
5°	23848.1	9728.7	5554.8	4900.7	4625.4	4677.5	4794.1	4875.1	4822.4	4529.7	4137.2
2.5°	27472.5	11114.5	5871.6	5111.4	4773.7	4810.0	4920.9	4949.6	4866.4	4545.3	4241.7
0°	29850.7	11745.4	5998.9	5216.0	4885.6	4914.4	5144.9	5027.9	4878.8	4526.3	4295.9
-2.5°	29609.5	11436.2	6055.0	5288.0	4993.3	5048.1	5322.7	5328.5	4991.0	4574.0	4337.7
-5°	28040.8	11424.7	6178.2	5400.5	5126.7	5202.4	5477.9	5513.8	5090.2	4638.9	4325.7
-7.5°	22680.4	10231.2	6194.4	5483.6	5265.7	5377.8	5615.9	5588.9	5208.1	4828.0	4377.6
-10°	15173.0	8140.5	6125.6	5571.7	5425.9	5578.6	5761.5	5660.9	5326.2	5004.8	4355.8
-12.5°	11214.4	6869.4	6032.4	5632.5	5611.3	5835.7	5927.9	5731.4	5453.6	5168.4	4251.8
-15°	7824.0	6552.7	6016.0	5817.2	5877.0	6064.9	6069.1	5776.5	5522.9	5277.8	4059.2
-17.5°	6830.7	6306.7	6005.8	5994.1	6176.8	6248.7	6098.5	5818.5	5550.1	5106.0	3702.4
-20°	6373.6	6134.0	6167.6	6297.6	6445.8	6438.3	6117.5	5848.6	5529.8	4636.8	3292.3



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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°	6169.4	6223.0	6372.2	6627.3	6668.3	6451.4	6146.5	5850.9	5460.8	4083.1	2867.0
-25°	6256.2	6460.5	6733.6	6840.5	6755.3	6444.8	6160.3	5792.4	4865.2	3534.9	2495.5
-27.5°	6540.0	6840.2	7018.8	6988.1	6735.7	6434.7	6101.5	5569.7	4177.0	3051.4	2477.9
-30°	6911.1	7068.3	7125.5	7001.3	6690.8	6376.0	6003.9	4756.6	3556.2	2648.8	2437.0
-32.5°	7144.8	7143.2	7084.6	6879.8	6610.7	6288.3	5204.6	3941.8	2916.4	2590.4	2408.4
-35°	7200.5	7056.5	6862.5	6674.7	6539.3	5490.1	4287.9	3197.1	2729.0	2530.7	2381.5
-37.5°	7029.2	6782.6	6554.3	6270.3	5462.6	4453.5	3333.2	2830.1	2635.4	2495.9	2359.1
-40°	6630.3	6363.2	5713.2	5022.5	4199.0	3255.0	2902.0	2709.1	2582.9	2462.0	2336.4
-42.5°	5623.7	5035.1	4409.1	3697.4	3073.5	2919.8	2768.8	2647.9	2532.8	2424.6	2248.2
-45°	4178.8	3651.3	3132.9	3012.8	2873.9	2779.8	2695.7	2593.5	2490.5	2322.0	2133.4
-47.5°	3080.6	2999.0	2904.9	2838.2	2766.7	2693.9	2628.1	2541.2	2366.1	2186.9	1992.7
-50°	2870.3	2832.6	2788.9	2741.7	2688.4	2627.9	2519.3	2384.5	2212.3	2030.0	1843.7
-52.5°	2774.2	2737.0	2700.7	2663.8	2575.8	2459.7	2337.4	2199.4	2039.3	1862.0	1683.5
-55°	2682.7	2617.0	2543.4	2463.4	2374.3	2257.2	2133.4	1998.8	1849.3	1682.3	1522.8
-57.5°	2461.7	2389.5	2315.3	2235.3	2149.8	2035.3	1909.1	1780.0	1650.1	1502.0	1360.1
-60°	2210.5	2139.1	2064.8	1982.3	1891.9	1788.5	1682.0	1567.3	1444.5	1331.4	1216.9
-62.5°	1935.0	1862.7	1794.1	1723.1	1649.1	1567.3	1468.7	1372.3	1274.1	1172.7	1067.1
-65°	1658.4	1594.8	1535.9	1481.2	1423.3	1361.4	1276.3	1188.7	1098.9	1007.3	914.1
-67.5°	1401.1	1350.3	1303.4	1256.7	1206.6	1152.2	1078.5	999.9	929.3	860.5	787.9
-70°	1162.0	1118.3	1076.0	1034.5	996.1	958.1	906.8	848.1	787.4	736.9	690.1
-72.5°	959.4	926.9	895.3	865.7	832.9	806.3	774.7	735.8	695.7	654.5	616.4
-75°	815.5	792.0	769.5	750.5	730.2	708.5	685.3	656.4	627.6	598.9	569.9
-77.5°	719.5	701.2	683.7	670.2	656.0	641.1	623.1	598.1	573.1	548.1	522.7
-80°	644.2	628.8	613.7	601.9	589.6	576.8	562.4	540.6	518.7	496.6	474.3
-82.5°	568.1	555.4	542.6	532.5	522.0	511.2	499.4	480.7	461.9	443.1	424.3
-85°	491.3	480.9	470.5	462.5	454.3	445.8	436.8	421.5	406.0	390.3	374.6
-87.5°	420.5	413.0	405.5	399.3	393.0	386.5	379.9	367.8	355.7	343.7	331.7
-90°	1.7	1.7	1.7	2.1	2.6	3.0	3.4	3.8	4.3	4.7	5.1



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	287.3	276.3	265.2	254.2	239.4	224.6	209.7	194.9	179.2	163.6	147.9
87.5°	5.1	5.1	5.1	5.1	5.5	6.0	6.4	6.8	6.8	6.8	6.8
85°	5.1	5.1	5.1	5.1	5.5	6.0	6.4	6.8	6.8	6.8	6.8
82.5°	5.1	5.1	5.1	5.1	5.6	6.0	6.4	6.8	6.9	6.8	6.8
80°	5.4	5.6	5.7	5.7	5.8	6.0	6.4	6.9	7.3	7.4	7.3
77.5°	6.1	6.2	6.5	6.7	6.8	6.9	7.0	7.2	7.7	8.1	8.1
75°	6.8	6.7	6.7	7.1	7.6	7.8	7.8	8.1	8.8	8.9	9.0
72.5°	7.3	7.3	7.1	7.4	8.3	8.8	8.8	9.2	10.2	10.5	10.0
70°	9.9	8.5	8.1	9.0	9.8	10.0	10.2	11.1	11.7	12.2	11.8
67.5°	14.4	12.8	11.1	11.2	12.1	12.5	12.0	13.4	14.4	14.0	13.7
65°	26.2	20.0	15.4	16.4	16.1	15.3	15.1	16.5	17.4	17.1	15.6
62.5°	36.9	29.8	25.1	23.3	22.0	20.6	18.7	20.8	20.9	20.5	18.6
60°	46.5	38.7	36.1	34.8	30.9	26.9	25.8	25.6	25.8	24.0	22.0
57.5°	49.1	46.3	49.2	47.8	43.2	36.6	34.7	33.8	31.0	28.8	25.8
55°	51.4	52.1	63.3	63.6	57.6	49.5	47.1	44.4	37.7	34.2	30.6
52.5°	59.7	67.8	79.4	81.7	75.3	66.3	64.8	55.9	49.1	39.7	36.9
50°	78.9	94.4	103.7	104.3	95.3	91.9	84.4	74.3	61.2	47.2	44.0
47.5°	133.2	146.4	138.2	133.2	122.4	122.0	112.2	94.7	74.1	59.1	51.6
45°	241.8	229.4	198.6	173.0	162.9	161.7	145.5	116.5	94.0	73.7	59.8
42.5°	374.1	347.5	300.7	218.5	219.2	208.2	182.3	148.9	114.9	89.1	71.2
40°	553.7	486.9	422.2	337.0	283.9	260.1	228.9	185.4	137.1	107.0	85.1
37.5°	717.7	634.7	562.9	454.2	363.8	325.5	280.0	224.3	165.8	129.4	99.2
35°	816.9	768.9	687.4	567.7	466.9	396.0	334.7	268.0	201.8	152.3	113.6
32.5°	902.2	873.6	790.6	676.2	564.0	471.4	397.6	313.6	237.1	175.5	128.3
30°	981.6	951.4	892.9	777.0	656.2	556.3	460.9	357.2	271.6	199.2	144.2
27.5°	1064.7	1029.6	989.1	870.9	744.9	635.9	514.6	398.8	305.2	224.9	163.6
25°	1150.2	1106.2	1061.4	963.5	826.9	699.1	566.0	438.7	339.8	253.2	182.8
22.5°	1247.4	1179.8	1133.4	1055.0	901.3	763.0	617.5	482.5	373.6	280.4	201.8
20°	1343.7	1250.8	1202.5	1129.0	975.2	826.9	670.3	523.9	405.5	306.5	220.4
17.5°	1472.9	1325.8	1257.5	1181.2	1044.6	888.4	722.1	562.7	435.3	331.3	238.5
15°	1776.3	1406.5	1312.2	1231.7	1107.8	947.3	772.4	598.9	463.1	354.8	255.2
12.5°	2093.9	1486.6	1366.9	1280.2	1164.8	1003.1	820.6	632.3	488.8	376.1	269.8
10°	2414.1	1565.0	1420.9	1326.4	1216.0	1055.5	866.1	666.6	516.8	395.6	283.1
7.5°	2724.7	1640.3	1473.6	1370.1	1261.8	1100.8	909.2	706.7	544.2	413.6	295.2
5°	2990.7	1707.1	1526.5	1417.2	1304.0	1137.7	946.8	744.3	570.0	430.1	306.0
2.5°	3119.2	1760.4	1577.6	1462.6	1342.3	1169.5	979.2	778.9	593.8	444.8	315.5
0°	3192.7	1806.5	1625.1	1504.8	1376.0	1196.4	1006.6	810.0	615.1	457.5	323.7
-2.5°	3187.3	1850.1	1670.6	1549.2	1424.1	1233.0	1029.0	827.4	631.6	472.5	334.8
-5°	3130.1	1887.5	1712.2	1590.4	1466.4	1263.8	1046.7	840.8	645.2	485.1	344.3
-7.5°	3089.2	1930.2	1753.1	1629.2	1502.2	1287.9	1059.4	850.3	655.9	495.4	352.4
-10°	3001.2	1972.4	1794.4	1665.4	1524.0	1303.8	1067.9	855.9	663.8	503.1	358.8
-12.5°	2845.9	2005.6	1830.3	1696.9	1538.0	1312.7	1077.6	861.6	669.1	508.1	363.5
-15°	2620.4	2029.3	1860.6	1723.4	1545.4	1315.7	1081.6	864.9	673.8	511.0	366.3
-17.5°	2322.5	2043.0	1884.9	1744.7	1546.1	1312.9	1079.8	863.6	675.2	511.9	368.5
-20°	2274.6	2060.0	1903.2	1760.3	1539.9	1304.2	1071.9	857.4	673.2	510.2	369.5



REPORT NUMBER: P731597 (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°
-22.5°	2276.8	2081.7	1923.5	1751.6	1525.6	1289.7	1057.9	846.3	667.6	505.6	368.6
-25°	2269.9	2096.3	1941.5	1742.1	1503.5	1269.2	1039.7	830.4	658.5	498.3	365.5
-27.5°	2271.6	2105.9	1955.8	1724.2	1481.8	1241.7	1017.8	816.9	646.6	488.1	360.3
-30°	2272.1	2116.0	1935.7	1696.2	1451.3	1210.9	990.2	799.6	632.5	478.6	353.0
-32.5°	2259.0	2122.9	1898.3	1654.8	1411.3	1173.4	959.0	778.1	615.1	468.5	349.0
-35°	2247.7	2082.3	1850.9	1603.8	1362.3	1134.8	927.6	752.6	594.5	455.8	345.2
-37.5°	2226.9	2009.5	1785.0	1542.5	1305.0	1089.7	897.0	726.2	570.7	440.5	340.0
-40°	2138.9	1923.2	1699.3	1471.3	1246.5	1038.3	860.9	696.1	548.7	422.4	333.2
-42.5°	2040.7	1821.6	1604.1	1388.9	1183.4	992.3	819.8	661.0	524.8	409.4	325.0
-45°	1921.8	1710.7	1500.5	1305.0	1115.6	940.6	775.3	622.6	497.7	398.3	317.9
-47.5°	1793.7	1590.2	1396.8	1214.5	1050.9	883.5	725.3	588.5	467.9	385.3	313.2
-50°	1655.1	1468.1	1291.3	1128.6	975.8	821.4	673.3	550.8	449.6	369.6	307.6
-52.5°	1512.8	1346.6	1189.1	1041.2	895.9	753.3	626.9	511.6	429.1	358.2	301.0
-55°	1369.0	1230.1	1088.4	947.9	811.0	692.0	576.8	485.3	406.4	348.3	293.7
-57.5°	1236.4	1114.0	980.8	849.1	733.0	628.6	536.3	456.5	391.2	337.5	287.4
-60°	1102.6	987.4	867.1	759.0	658.2	573.3	500.5	430.5	377.5	326.2	279.8
-62.5°	961.5	860.1	767.6	672.0	595.6	529.0	465.7	413.7	362.7	315.9	271.2
-65°	832.9	750.8	670.3	607.9	545.5	488.8	444.6	395.6	349.1	304.7	261.8
-67.5°	714.5	662.0	609.1	551.8	505.8	463.7	422.0	378.5	335.0	292.8	251.6
-70°	642.5	594.4	555.3	516.8	476.9	437.8	400.7	361.2	320.1	279.6	240.8
-72.5°	583.8	551.3	518.8	484.1	448.3	413.2	379.0	342.7	303.4	265.6	229.3
-75°	540.4	511.2	482.5	452.4	419.8	387.6	355.5	322.2	286.0	250.9	217.1
-77.5°	496.8	471.2	445.9	419.2	389.2	359.6	330.5	300.9	267.6	235.4	204.4
-80°	451.7	429.1	406.8	383.7	357.1	330.8	304.6	278.3	248.3	219.2	191.2
-82.5°	405.1	385.9	366.7	347.0	323.6	300.5	277.6	254.8	228.3	202.5	178.8
-85°	358.4	342.1	325.7	309.2	289.3	269.6	251.4	232.9	211.0	189.7	168.8
-87.5°	318.9	306.0	293.2	280.3	263.8	247.3	230.7	214.1	195.3	176.7	158.5
-90°	5.1	5.1	5.1	5.1	5.5	6.0	6.4	6.8	6.8	6.8	6.8



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	132.2	110.2	88.1	66.1	44.1	27.1	10.2
87.5°	6.8	7.0	7.1	7.1	7.1	8.8	10.2
85°	6.8	7.2	7.4	7.5	7.4	9.1	10.2
82.5°	6.8	7.4	7.7	7.8	7.7	9.4	10.2
80°	7.0	7.6	8.0	8.1	8.1	9.7	10.2
77.5°	7.9	8.1	8.3	8.5	8.4	10.0	10.2
75°	9.0	9.3	8.8	8.8	8.8	10.3	10.2
72.5°	10.0	10.5	10.0	9.2	9.2	10.7	10.2
70°	11.3	11.8	11.3	9.7	9.6	11.0	10.2
67.5°	13.5	13.1	12.6	10.8	10.0	11.3	10.2
65°	15.8	15.0	13.8	11.9	10.5	11.6	10.2
62.5°	18.3	17.5	15.2	13.1	11.0	12.0	10.2
60°	20.9	20.0	16.5	14.2	11.5	12.3	10.2
57.5°	25.1	22.7	18.9	15.3	12.7	12.7	10.2
55°	29.7	25.5	21.3	16.5	13.9	13.0	10.2
52.5°	34.5	28.6	23.8	17.7	15.1	13.4	10.2
50°	39.6	33.1	26.3	18.8	16.3	13.7	10.2
47.5°	45.1	37.7	28.9	20.2	17.6	14.1	10.2
45°	52.2	42.5	31.5	22.1	19.0	14.5	10.2
42.5°	59.7	47.3	34.1	24.1	20.4	14.8	10.2
40°	67.4	52.3	37.4	26.7	21.8	15.2	10.2
37.5°	75.5	57.4	41.3	29.7	23.2	15.6	10.2
35°	83.7	63.5	45.2	32.8	24.7	15.9	10.2
32.5°	93.2	70.0	49.0	35.9	26.1	16.3	10.2
30°	105.1	76.6	52.9	39.1	27.6	16.6	10.2
27.5°	116.9	83.2	58.4	42.2	29.1	17.0	10.2
25°	128.7	89.8	64.0	45.4	30.6	17.4	10.2
22.5°	140.2	96.8	69.6	48.6	32.1	17.7	10.2
20°	151.5	104.9	75.1	51.8	33.6	18.0	10.2
17.5°	162.8	112.6	80.5	54.9	35.1	18.4	10.2
15°	173.8	120.1	85.8	58.0	36.5	18.7	10.2
12.5°	184.2	127.2	90.9	61.1	37.9	19.0	10.2
10°	193.9	134.1	95.9	64.0	39.3	19.3	10.2
7.5°	202.8	140.5	100.6	66.9	40.6	19.6	10.2
5°	211.1	146.6	105.2	69.6	41.8	19.8	10.2
2.5°	218.6	152.3	109.5	72.2	43.0	20.1	10.2
0°	225.4	157.6	113.5	74.6	44.1	20.3	10.2
-2.5°	233.4	164.1	118.6	78.5	46.5	21.3	10.2
-5°	240.6	170.2	123.4	82.3	48.8	22.3	10.2
-7.5°	246.9	175.9	127.8	85.8	51.0	23.2	10.2
-10°	252.4	181.0	132.0	89.1	53.1	24.1	10.2
-12.5°	257.0	185.7	135.8	92.2	55.0	25.0	10.2
-15°	260.7	189.9	139.3	95.1	56.8	25.8	10.2
-17.5°	263.5	193.5	142.5	97.7	58.5	26.6	10.2
-20°	265.9	196.6	145.3	100.0	60.0	27.4	10.2



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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	268.1	199.1	147.8	102.1	61.3	28.1	10.2
-25°	269.2	201.6	149.9	103.9	62.5	28.8	10.2
-27.5°	269.2	203.6	151.7	105.4	63.5	29.4	10.2
-30°	268.0	205.0	153.2	106.7	64.4	30.0	10.2
-32.5°	265.7	205.8	154.4	107.6	65.0	30.5	10.2
-35°	264.8	205.9	155.2	108.3	65.5	31.0	10.2
-37.5°	264.3	205.7	155.6	108.6	65.8	31.4	10.2
-40°	262.9	205.6	155.5	108.6	65.9	31.8	10.2
-42.5°	260.7	205.0	155.0	108.4	65.8	32.1	10.2
-45°	257.7	203.8	154.2	107.8	65.5	32.3	10.2
-47.5°	253.8	202.0	152.9	106.8	65.1	32.5	10.2
-50°	250.6	199.6	151.3	105.8	64.4	32.6	10.2
-52.5°	246.9	196.6	149.1	104.4	63.6	32.7	10.2
-55°	242.4	193.2	146.6	102.8	62.5	32.7	10.2
-57.5°	237.3	189.3	143.6	100.8	61.3	32.6	10.2
-60°	231.5	184.8	140.2	98.6	60.0	32.5	10.2
-62.5°	225.1	179.8	136.6	96.1	59.3	32.3	10.2
-65°	218.0	174.2	132.7	93.4	58.6	32.1	10.2
-67.5°	210.3	168.2	128.3	90.4	57.7	31.8	10.2
-70°	202.0	161.9	123.6	87.1	56.6	31.5	10.2
-72.5°	193.1	155.0	118.5	84.9	55.4	31.1	10.2
-75°	183.8	147.8	113.2	82.7	54.1	30.7	10.2
-77.5°	173.9	140.1	109.2	80.4	52.7	30.2	10.2
-80°	163.6	133.9	105.5	77.8	51.2	29.7	10.2
-82.5°	156.0	128.4	101.4	75.1	49.5	29.1	10.2
-85°	148.3	122.6	97.2	72.3	47.8	28.5	10.2
-87.5°	140.4	116.5	92.8	69.3	46.0	27.8	10.2
-90°	6.8	6.8	6.8	6.8	6.8	8.5	10.2

(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

