

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: P701630 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-80-1S-VHE-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701630 (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: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-40-80-1S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

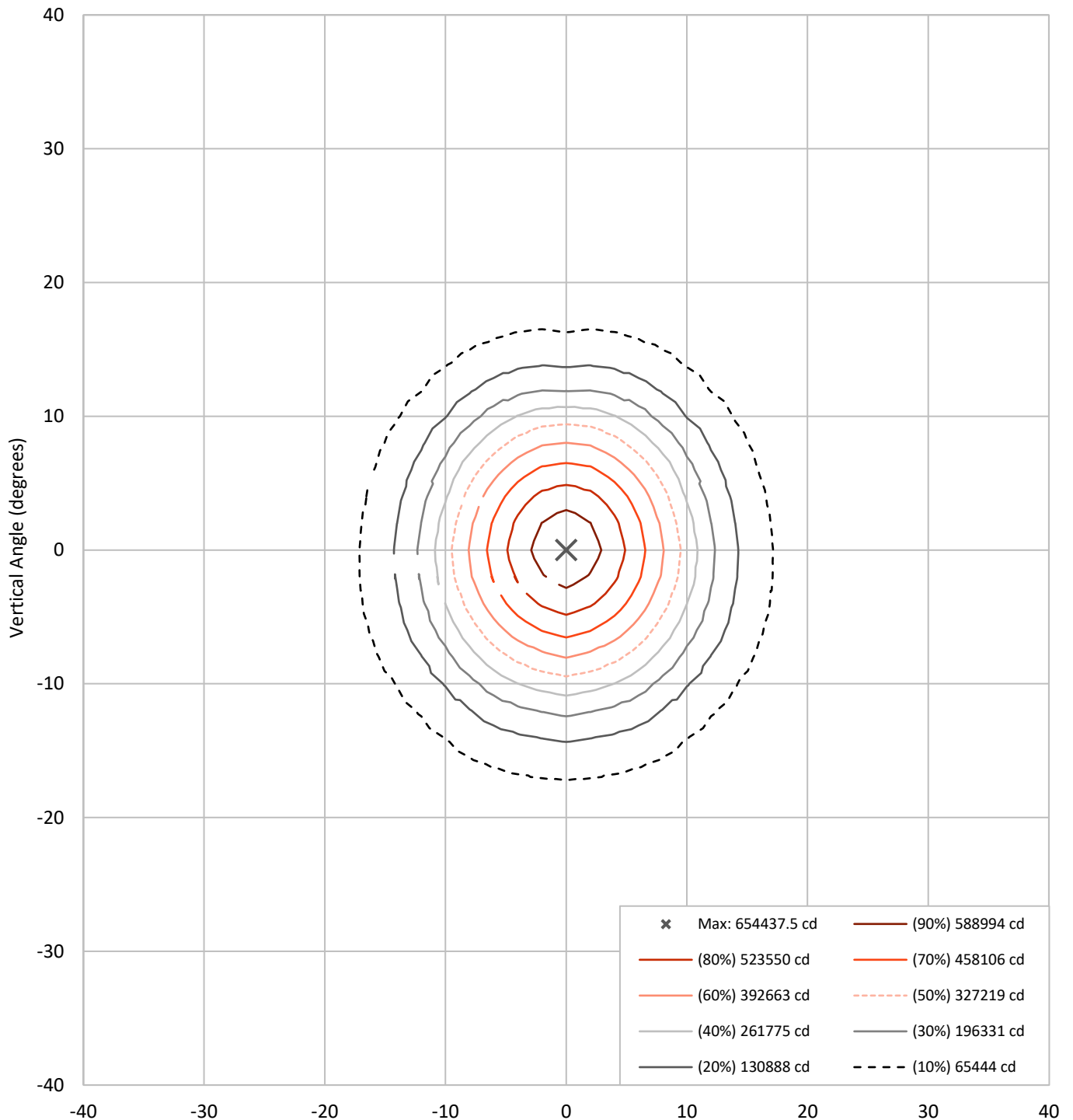
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	86261.1 lumens	Max Intensity:	654437.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	119.0 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:	38238.1 lumens	Field Lumens:	69644.8 lumens
Beam Efficiency:	44.3%	Field Efficiency:	80.7%

Input Watts (W): 724.6
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





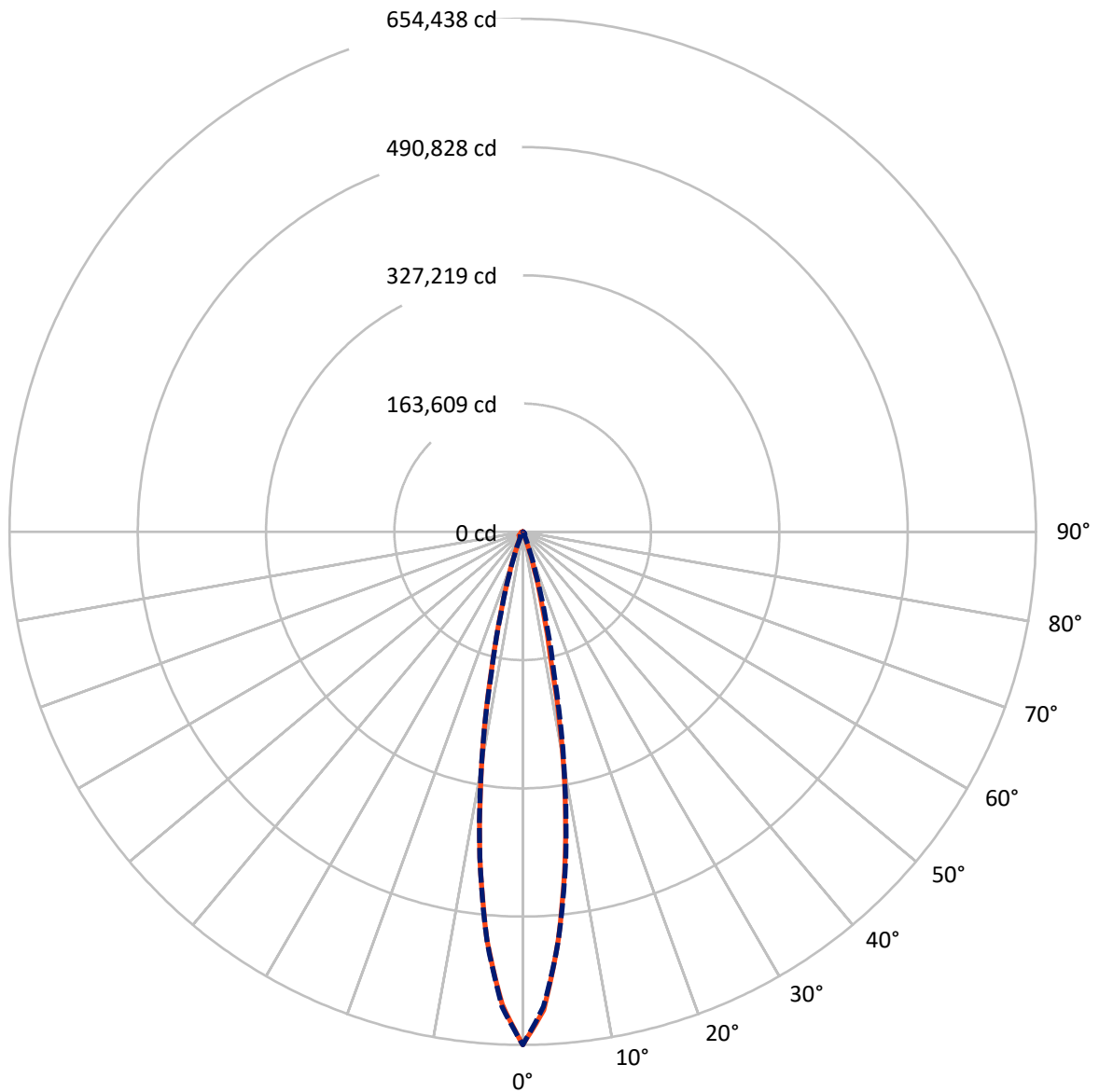
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Lumen Table

90	0.3	1.2	2.2	3.0	3.3	3.0	2.2	1.2	0.3										
80	0.3	1.2	2.2	3.0	3.3	3.0	2.2	1.2	0.3										
70	0.4	0.2	0.3	0.6	0.7	0.4	0.3	0.3	0.3	0.3	0.4	0.7	0.6	0.3	0.2	0.4			
60		0.5	1.0	1.1	1.0	0.9	1.2	1.3	1.3	1.2	0.9	1.0	1.1	1.0	0.5				
50	1.2	1.5	3.2	6.2	9.7	16.8	25.5	28.3	28.3	25.5	16.8	9.7	6.2	3.2	1.5	1.2			
40		3.3	9.3	16.8	35.3	57.7	64.6	67.8	67.8	64.6	57.7	35.3	16.8	9.3	3.3				
30	2.8	5.5	15.2	31.2	74.2	78.7	95.6	158.2	158.2	95.6	78.7	74.2	31.2	15.2	5.5	2.8			
20		7.6	19.5	55.6	98.3	116.1	722.9	2880.5	2880.5	722.9	116.1	98.3	55.6	19.5	7.6				
10	4.2	9.2	22.9	73.5	109.7	216.5	2920.6	12151.3	12151.3	2920.6	216.5	109.7	73.5	22.9	9.2	4.2			
0		10.3	25.7	78.5	122.0	242.2	3070.5	12092.7	12092.7	3070.5	242.2	122.0	78.5	25.7	10.3				
-10	4.9	10.7	27.5	77.5	135.1	166.5	852.5	3121.1	3121.1	852.5	166.5	135.1	77.5	27.5	10.7	4.9			
-20		10.4	27.8	60.0	137.7	168.6	184.0	285.7	285.7	184.0	168.6	137.7	60.0	27.8	10.4				
-30	4.6	9.3	26.0	47.8	100.9	169.4	190.4	192.6	192.6	190.4	169.4	100.9	47.8	26.0	9.3	4.6			
-40		7.8	21.3	41.8	62.5	94.4	139.9	174.5	174.5	139.9	94.4	62.5	41.8	21.3	7.8				
-50	3.9	6.0	15.5	30.5	48.6	63.4	73.8	80.6	80.6	73.8	63.4	48.6	30.5	15.5	6.0	3.9			
-60		4.8	10.1	18.6	29.4	39.5	48.1	53.9	53.9	48.1	39.5	29.4	18.6	10.1	4.8				
-70	2.7	18.2	43.5	68.3	81.5	68.3	43.5	18.2	2.7						2.7				
-80		18.2	43.5	68.3	81.5	68.3	43.5	18.2	2.7										
-90	2.7	18.2	43.5	68.3	81.5	68.3	43.5	18.2	2.7										

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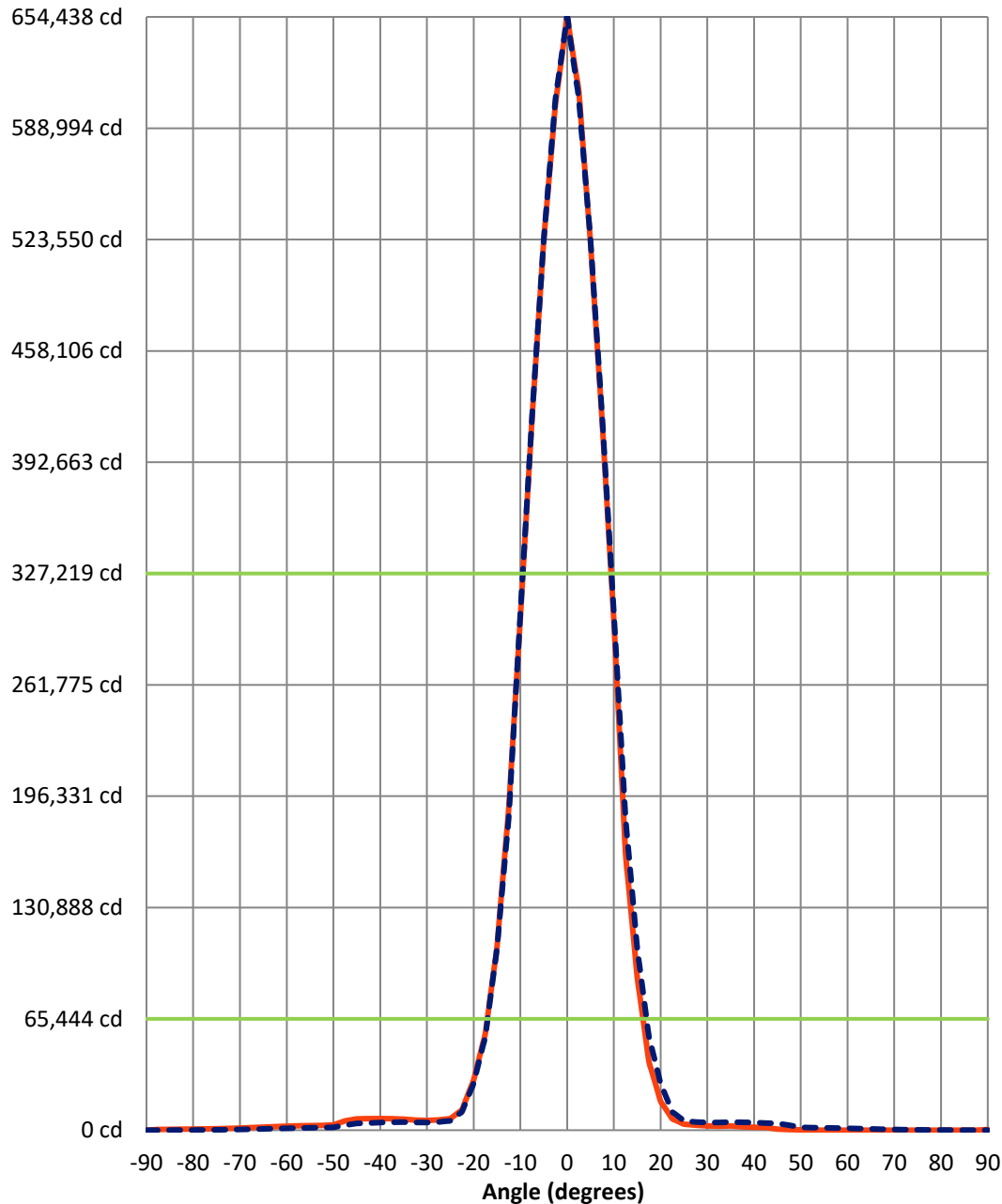
Luminous Intensity Polar Plot



— 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: 38238.1
 Efficiency: 44.3%

Field:
 H Angle: 34°
 V Angle: 33.3°
 Lumens: 69644.8
 Efficiency: 80.7%

Spill:
 Lumens: 16616.4
 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°	9.4	25.0	40.6	60.9	81.2	101.5	121.8	136.3	150.7	165.2	179.6
87.5°	9.4	8.1	6.5	6.5	6.5	6.4	6.2	6.2	6.2	6.2	6.2
85°	9.4	8.4	6.8	6.8	6.8	6.6	6.2	6.2	6.2	6.2	6.2
82.5°	9.4	8.6	7.1	7.1	7.0	6.7	6.2	6.2	6.2	6.3	6.2
80°	9.4	8.9	7.4	7.5	7.3	6.9	6.4	6.7	6.8	6.7	6.3
77.5°	9.4	9.2	7.7	7.8	7.6	7.5	7.3	7.4	7.4	7.1	6.5
75°	9.4	9.5	8.1	8.1	8.1	8.5	8.2	8.2	8.1	8.1	7.4
72.5°	9.4	9.8	8.4	8.5	9.2	9.7	9.2	9.3	9.6	9.4	8.4
70°	9.4	10.1	8.8	8.9	10.4	10.8	10.4	10.9	11.2	10.8	10.2
67.5°	9.4	10.4	9.2	10.0	11.6	12.1	12.4	12.6	12.9	13.3	12.3
65°	9.4	10.7	9.7	11.0	12.7	13.8	14.6	14.4	15.8	16.0	15.1
62.5°	9.4	11.0	10.1	12.0	14.0	16.1	16.9	17.1	18.9	19.2	19.2
60°	9.4	11.3	10.6	13.1	15.2	18.5	19.3	20.3	22.1	23.8	23.6
57.5°	9.4	11.7	11.7	14.1	17.4	20.9	23.1	23.9	26.6	28.6	31.2
55°	9.4	12.0	12.8	15.2	19.6	23.5	27.3	28.2	31.5	34.8	40.9
52.5°	9.4	12.3	13.9	16.3	21.9	26.4	31.8	34.1	36.6	45.3	51.6
50°	9.4	12.6	15.1	17.3	24.2	30.5	36.5	40.6	43.5	56.4	68.5
47.5°	9.4	13.0	16.2	18.6	26.6	34.8	41.6	47.6	54.5	68.3	87.3
45°	9.4	13.3	17.5	20.4	29.0	39.1	48.2	55.1	68.0	86.7	107.4
42.5°	9.4	13.7	18.7	22.2	31.4	43.6	55.0	65.7	82.2	106.0	137.3
40°	9.4	14.0	20.0	24.6	34.4	48.2	62.2	78.4	98.7	126.4	170.9
37.5°	9.4	14.3	21.4	27.4	38.0	52.9	69.6	91.5	119.3	152.9	206.7
35°	9.4	14.7	22.7	30.2	41.6	58.5	77.2	104.8	140.4	186.0	247.0
32.5°	9.4	15.0	24.1	33.1	45.2	64.5	86.0	118.3	161.8	218.6	289.0
30°	9.4	15.3	25.4	36.0	48.7	70.6	96.9	132.9	183.6	250.4	329.3
27.5°	9.4	15.7	26.8	38.9	53.8	76.7	107.8	150.8	207.4	281.3	367.6
25°	9.4	16.0	28.2	41.8	58.9	82.8	118.6	168.5	233.4	313.2	404.4
22.5°	9.4	16.3	29.6	44.8	64.1	89.3	129.3	186.0	258.5	344.4	444.7
20°	9.4	16.6	31.0	47.7	69.2	96.7	139.7	203.2	282.5	373.7	482.9
17.5°	9.4	16.9	32.3	50.6	74.2	103.8	150.1	219.9	305.4	401.2	518.7
15°	9.4	17.2	33.6	53.4	79.0	110.7	160.3	235.3	327.0	426.9	552.1
12.5°	9.4	17.5	34.9	56.2	83.8	117.3	169.8	248.7	346.7	450.5	582.9
10°	9.4	17.8	36.2	59.0	88.4	123.6	178.7	261.0	364.6	476.4	614.5
7.5°	9.4	18.0	37.4	61.6	92.8	129.6	187.0	272.2	381.3	501.6	651.5
5°	9.4	18.3	38.5	64.1	97.0	135.2	194.6	282.1	396.5	525.4	686.1
2.5°	9.4	18.5	39.6	66.5	101.0	140.4	201.6	290.9	410.0	547.3	718.0
0°	9.4	18.7	40.6	68.7	104.7	145.3	207.8	298.4	421.8	567.0	746.7
-2.5°	9.4	19.6	42.8	72.3	109.4	151.3	215.2	308.6	435.6	582.2	762.7
-5°	9.4	20.5	44.9	75.8	113.8	157.0	221.8	317.4	447.2	594.7	775.1
-7.5°	9.4	21.4	47.0	79.0	117.9	162.1	227.6	324.9	456.7	604.6	783.8
-10°	9.4	22.2	48.9	82.1	121.7	166.9	232.7	330.8	463.8	611.8	788.9
-12.5°	9.4	23.0	50.7	85.0	125.2	171.2	236.9	335.1	468.4	616.7	794.2
-15°	9.4	23.8	52.3	87.6	128.4	175.0	240.3	337.7	471.0	621.1	797.3
-17.5°	9.4	24.5	53.9	90.0	131.3	178.3	242.9	339.7	471.9	622.4	796.0
-20°	9.4	25.2	55.3	92.2	133.9	181.2	245.1	340.7	470.3	620.5	790.3



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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°	9.4	25.9	56.5	94.1	136.2	183.5	247.2	339.8	466.1	615.4	780.2
-25°	9.4	26.5	57.6	95.8	138.2	185.8	248.2	336.9	459.3	607.0	765.5
-27.5°	9.4	27.1	58.5	97.2	139.8	187.7	248.2	332.2	450.0	596.0	753.0
-30°	9.4	27.6	59.3	98.3	141.2	188.9	247.0	325.4	441.2	583.0	737.1
-32.5°	9.4	28.1	59.9	99.2	142.3	189.6	244.9	321.7	431.9	567.0	717.3
-35°	9.4	28.6	60.4	99.8	143.1	189.7	244.1	318.2	420.2	548.0	693.7
-37.5°	9.4	28.9	60.6	100.1	143.4	189.6	243.6	313.4	406.0	526.1	669.4
-40°	9.4	29.3	60.7	100.2	143.3	189.5	242.3	307.1	389.4	505.8	641.7
-42.5°	9.4	29.5	60.6	99.9	142.9	189.0	240.3	299.5	377.4	483.8	609.4
-45°	9.4	29.8	60.4	99.3	142.1	187.8	237.5	292.9	367.1	458.8	573.9
-47.5°	9.4	29.9	59.9	98.5	141.0	186.2	234.0	288.7	355.1	431.3	542.5
-50°	9.4	30.0	59.3	97.5	139.4	184.0	231.0	283.6	340.6	414.4	507.7
-52.5°	9.4	30.1	58.6	96.2	137.5	181.3	227.6	277.5	330.2	395.5	471.6
-55°	9.4	30.1	57.6	94.7	135.1	178.1	223.5	270.8	321.1	374.5	447.3
-57.5°	9.4	30.0	56.5	92.9	132.4	174.5	218.8	265.0	311.1	360.5	420.8
-60°	9.4	29.9	55.3	90.9	129.3	170.3	213.4	257.9	300.7	348.0	396.8
-62.5°	9.4	29.8	54.7	88.6	126.0	165.7	207.5	250.0	291.2	334.4	381.3
-65°	9.4	29.6	54.0	86.1	122.3	160.6	200.9	241.3	280.9	321.8	364.7
-67.5°	9.4	29.3	53.1	83.3	118.3	155.1	193.8	232.0	269.9	308.8	348.9
-70°	9.4	29.0	52.1	80.3	113.9	149.2	186.2	222.0	257.7	295.0	332.9
-72.5°	9.4	28.7	51.1	78.2	109.2	142.9	178.1	211.4	244.9	279.7	315.9
-75°	9.4	28.3	49.8	76.2	104.3	136.2	169.4	200.2	231.4	263.6	297.0
-77.5°	9.4	27.8	48.5	74.0	100.7	129.1	160.3	188.4	217.0	246.7	277.4
-80°	9.4	27.3	47.1	71.7	97.2	123.4	150.8	176.2	202.1	228.9	256.5
-82.5°	9.4	26.8	45.6	69.2	93.5	118.3	143.7	164.8	186.7	210.5	234.9
-85°	9.4	26.2	44.0	66.6	89.6	112.9	136.7	155.6	174.8	194.5	214.7
-87.5°	9.4	25.6	42.3	63.8	85.5	107.3	129.4	146.0	162.9	180.0	197.3
-90°	9.4	7.8	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2



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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°	193.3	207.0	220.6	234.3	244.5	254.6	264.8	274.9	283.5	292.1	300.7
87.5°	5.8	5.5	5.1	4.7	4.7	4.7	4.7	4.7	4.3	3.9	3.5
85°	5.8	5.5	5.1	4.7	4.7	4.7	4.7	4.7	4.3	3.9	3.5
82.5°	5.9	5.5	5.1	4.7	4.7	4.7	4.7	4.7	4.4	4.2	4.0
80°	5.9	5.5	5.4	5.2	5.2	5.2	5.0	4.8	4.7	4.7	4.8
77.5°	6.4	6.3	6.2	6.1	5.9	5.7	5.5	5.5	5.5	5.4	5.2
75°	7.1	7.1	7.0	6.5	6.1	6.1	6.2	6.2	6.0	5.6	5.2
72.5°	8.1	8.1	7.6	6.8	6.5	6.7	6.6	6.4	6.8	7.7	8.5
70°	9.4	9.1	9.0	8.2	7.4	7.8	9.0	10.3	11.4	13.3	16.0
67.5°	11.0	11.5	11.1	10.3	10.2	11.7	13.2	18.1	23.6	26.6	27.8
65°	13.9	14.1	14.8	15.1	14.2	18.4	24.1	30.6	36.7	37.9	36.9
62.5°	17.2	19.0	20.3	21.5	23.2	27.5	34.0	40.6	47.2	45.3	39.0
60°	23.9	24.8	28.5	32.1	33.3	35.7	42.8	46.5	48.6	47.4	36.9
57.5°	32.0	33.8	39.9	44.0	45.3	42.6	45.3	47.6	47.3	41.8	32.0
55°	43.4	45.6	53.1	58.6	58.3	48.0	47.5	49.7	46.2	40.5	31.5
52.5°	59.8	61.1	69.4	75.3	73.2	62.6	55.0	58.5	58.0	50.7	43.1
50°	77.8	84.7	87.8	96.2	95.6	87.0	72.7	79.8	92.4	90.2	79.3
47.5°	103.4	112.4	112.8	122.9	127.4	134.9	122.7	138.0	156.6	194.8	182.6
45°	134.1	149.0	150.2	159.5	183.0	211.4	222.9	222.0	316.3	350.3	375.1
42.5°	168.0	192.0	202.1	201.4	277.2	320.3	344.8	422.7	494.4	516.1	527.7
40°	210.9	239.8	261.7	310.6	389.1	448.8	510.4	593.6	632.7	636.5	636.7
37.5°	258.1	300.1	335.4	418.7	518.9	585.1	661.6	697.4	724.5	726.0	756.8
35°	308.6	365.0	430.4	523.3	633.7	708.8	753.0	785.4	800.2	834.2	983.6
32.5°	366.5	434.5	519.9	623.4	728.8	805.3	831.7	859.6	895.6	996.5	1435.1
30°	424.9	512.8	604.9	716.2	823.1	877.0	904.8	939.9	996.5	1390.1	1997.7
27.5°	474.4	586.2	686.6	802.8	911.8	949.1	981.4	1033.9	1274.2	1826.4	2670.7
25°	521.8	644.5	762.2	888.1	978.4	1019.7	1060.2	1131.4	1600.5	2475.5	3051.8
22.5°	569.2	703.4	830.8	972.6	1044.7	1087.5	1149.9	1416.0	2072.1	3124.0	3395.0
20°	617.9	762.2	898.9	1040.8	1108.5	1153.0	1238.6	1738.2	2648.3	3400.8	3651.7
17.5°	665.6	818.9	962.9	1088.9	1159.1	1222.1	1357.7	2062.3	3167.2	3673.9	3848.6
15°	712.0	873.2	1021.2	1135.4	1209.5	1296.6	1637.4	2493.4	3503.7	3919.0	4084.9
12.5°	756.4	924.6	1073.7	1180.0	1260.0	1370.4	1930.2	2919.6	3729.0	4112.0	4270.9
10°	798.4	972.9	1120.9	1222.6	1309.8	1442.6	2225.3	3279.4	3915.0	4242.5	4363.6
7.5°	838.1	1014.6	1163.1	1262.9	1358.3	1512.1	2511.6	3576.2	4061.7	4353.1	4427.8
5°	872.8	1048.7	1202.1	1306.3	1407.1	1573.6	2756.7	3813.7	4175.4	4445.3	4493.9
2.5°	902.6	1078.0	1237.3	1348.2	1454.3	1622.7	2875.2	3910.0	4189.9	4485.9	4562.6
0°	927.9	1102.8	1268.4	1387.1	1498.1	1665.2	2943.0	3959.9	4172.4	4497.3	4634.8
-2.5°	948.6	1136.5	1312.8	1428.1	1540.0	1705.4	2938.0	3998.5	4216.3	4600.7	4911.9
-5°	964.9	1164.9	1351.8	1466.1	1578.3	1739.9	2885.3	3987.4	4276.1	4692.3	5082.6
-7.5°	976.6	1187.1	1384.8	1501.8	1616.0	1779.3	2847.6	4035.2	4450.4	4800.9	5151.8
-10°	984.4	1201.8	1404.9	1535.2	1654.1	1818.2	2766.5	4015.2	4613.4	4909.8	5218.2
-12.5°	993.4	1210.1	1417.8	1564.2	1687.2	1848.8	2623.3	3919.3	4764.3	5027.2	5283.3
-15°	997.1	1212.9	1424.6	1588.7	1715.1	1870.7	2415.5	3741.8	4865.1	5091.1	5324.9
-17.5°	995.3	1210.2	1425.2	1608.3	1737.5	1883.3	2140.9	3412.9	4706.7	5116.1	5363.5
-20°	988.0	1202.2	1419.5	1622.7	1754.3	1898.9	2096.7	3034.9	4274.2	5097.4	5391.2



REPORT NUMBER: P701630 (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°	975.1	1188.9	1406.3	1614.6	1773.1	1918.9	2098.8	2642.8	3763.8	5033.9	5393.4
-25°	958.4	1170.0	1385.9	1605.9	1789.7	1932.4	2092.4	2300.4	3258.5	4484.7	5339.4
-27.5°	938.2	1144.6	1365.9	1589.4	1802.9	1941.2	2094.0	2284.1	2812.8	3850.4	5134.2
-30°	912.8	1116.2	1337.9	1563.6	1784.4	1950.6	2094.4	2246.5	2441.7	3278.1	4384.7
-32.5°	884.0	1081.6	1300.9	1525.4	1749.9	1956.9	2082.3	2220.0	2387.8	2688.3	3633.5
-35°	855.0	1046.0	1255.8	1478.4	1706.1	1919.5	2072.0	2195.3	2332.8	2515.6	2947.1
-37.5°	826.9	1004.5	1202.9	1421.9	1645.4	1852.4	2052.8	2174.7	2300.7	2429.3	2608.8
-40°	793.6	957.1	1149.0	1356.2	1566.4	1772.8	1971.7	2153.7	2269.5	2381.0	2497.3
-42.5°	755.7	914.7	1090.8	1280.3	1478.7	1679.2	1881.1	2072.4	2235.1	2334.8	2440.8
-45°	714.7	867.1	1028.3	1202.9	1383.2	1576.9	1771.6	1966.6	2140.4	2295.8	2390.7
-47.5°	668.6	814.4	968.7	1119.5	1287.5	1465.9	1653.5	1836.9	2015.9	2181.1	2342.5
-50°	620.7	757.2	899.5	1040.4	1190.3	1353.3	1525.7	1699.5	1871.3	2039.4	2198.1
-52.5°	577.9	694.5	825.9	959.8	1096.1	1241.3	1394.6	1551.9	1716.5	1879.9	2027.4
-55°	531.7	637.9	747.6	873.9	1003.3	1134.0	1262.0	1403.8	1550.8	1704.7	1842.5
-57.5°	494.3	579.5	675.6	782.7	904.2	1027.0	1139.7	1253.8	1384.5	1521.1	1640.8
-60°	461.3	528.4	606.7	699.6	799.3	910.2	1016.4	1121.8	1227.3	1331.6	1444.7
-62.5°	429.2	487.6	549.0	619.4	707.6	792.8	886.3	983.7	1081.1	1174.5	1265.0
-65°	409.8	450.6	502.8	560.3	617.9	692.1	767.8	842.6	928.5	1013.0	1095.8
-67.5°	389.0	427.4	466.3	508.7	561.5	610.2	658.7	726.3	793.3	856.7	921.7
-70°	369.4	403.6	439.6	476.4	511.9	548.0	592.2	636.2	679.3	725.8	781.8
-72.5°	349.3	380.9	413.2	446.3	478.3	508.2	538.2	568.2	603.4	641.3	678.2
-75°	327.7	357.3	386.9	417.1	444.8	471.3	498.2	525.4	552.1	578.5	605.1
-77.5°	304.7	331.5	358.7	386.5	411.1	434.3	458.0	481.8	505.2	528.3	551.3
-80°	280.8	304.9	329.2	353.8	375.0	395.6	416.4	437.2	457.8	478.2	498.3
-82.5°	256.0	277.0	298.4	319.9	338.1	355.8	373.4	391.1	408.5	425.8	443.1
-85°	231.7	248.6	266.7	285.1	300.3	315.4	330.4	345.3	359.8	374.2	388.5
-87.5°	212.6	227.9	243.2	258.4	270.3	282.1	294.0	305.8	316.8	327.9	339.0
-90°	5.8	5.5	5.1	4.7	4.7	4.7	4.7	4.7	4.3	3.9	3.5



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	309.3	315.2	321.0	326.9	332.7	337.8	342.9	347.9	353.0	356.1	359.3
87.5°	3.1	3.0	3.0	3.0	3.0	2.6	2.3	2.0	1.6	1.6	1.6
85°	3.1	3.1	3.1	3.1	3.1	2.7	2.4	2.0	1.6	1.6	1.6
82.5°	3.8	3.8	3.6	3.4	3.1	3.0	3.0	2.9	2.9	3.0	3.0
80°	4.7	4.4	4.0	3.6	3.2	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	4.8	4.4	4.0	3.6	3.2	3.1	3.1	3.1	3.1	3.1	3.1
75°	4.8	4.7	4.9	4.9	4.6	4.6	4.6	4.6	4.4	4.2	3.9
72.5°	9.3	9.6	9.5	9.8	9.8	10.1	10.5	10.7	10.8	10.9	10.9
70°	17.6	18.2	18.6	18.4	17.3	16.4	16.0	15.5	15.0	15.4	16.3
67.5°	26.8	24.9	23.9	22.6	20.1	18.0	16.7	15.4	14.0	13.3	13.1
65°	33.1	26.2	22.8	20.2	18.2	15.8	13.6	11.7	10.0	9.0	8.6
62.5°	31.5	22.5	17.8	15.0	12.5	10.3	8.5	7.2	6.2	5.7	5.7
60°	27.0	17.6	12.4	10.0	7.5	5.0	4.6	4.4	4.0	3.7	4.0
57.5°	24.1	15.8	9.7	9.4	8.2	5.9	5.1	5.1	4.3	3.1	3.6
55°	26.8	22.6	15.7	16.2	15.8	13.3	11.3	13.5	13.0	10.2	11.2
52.5°	40.2	46.1	37.6	34.9	47.7	47.3	37.0	50.5	58.0	56.7	57.9
50°	94.6	106.9	119.9	109.8	134.8	149.6	146.4	164.0	182.1	181.7	187.3
47.5°	224.2	258.0	261.7	268.5	297.0	333.3	362.9	383.6	394.2	389.8	392.9
45°	401.2	408.9	426.4	465.2	513.8	572.2	616.8	642.6	729.8	791.7	827.9
42.5°	531.9	555.7	598.6	701.0	776.1	948.6	1157.2	1238.2	1340.7	1392.7	1396.0
40°	662.8	723.4	900.8	1087.4	1492.5	1793.8	1811.7	1939.4	1998.2	1933.4	1923.7
37.5°	879.2	1103.9	1408.8	1840.0	2028.4	2110.3	2155.3	2171.5	2183.4	2172.6	2167.0
35°	1305.6	1696.4	1995.7	2136.3	2221.5	2224.2	2234.6	2233.2	2219.3	2212.0	2196.5
32.5°	1934.4	2307.2	2316.3	2305.4	2323.2	2313.0	2293.5	2284.4	2254.2	2236.0	2242.2
30°	2582.8	2584.9	2548.1	2462.6	2419.9	2406.8	2378.5	2355.2	2326.6	2330.8	2430.6
27.5°	2840.0	2808.5	2757.1	2683.3	2540.1	2512.1	2489.3	2479.5	2599.4	2708.9	2806.7
25°	3127.9	3046.2	3018.0	2953.7	2806.4	2643.4	2715.1	2827.8	2984.5	3147.8	3305.2
22.5°	3376.8	3317.9	3299.7	3275.8	3035.4	2965.2	3063.5	3249.0	3463.1	3746.7	4556.4
20°	3622.2	3558.5	3537.6	3417.7	3291.6	3309.0	3491.7	3815.2	4414.1	6565.7	9193.5
17.5°	3828.4	3762.5	3691.2	3551.2	3511.2	3686.5	4052.1	5188.3	8014.8	15077.6	22256.1
15°	4020.6	3934.0	3812.8	3720.9	3796.9	4123.4	5029.0	8900.0	18055.6	29910.7	44857.7
12.5°	4191.4	4058.8	3889.1	3841.5	4072.5	4622.5	8174.2	17464.1	31469.1	48358.0	83448.3
10°	4310.2	4138.3	3990.4	4072.6	4439.8	5916.2	11762.9	26182.6	46901.6	84676.1	128362.5
7.5°	4361.3	4205.7	4119.6	4296.1	4786.5	7597.9	17707.8	36210.7	66243.3	117036.8	186739.5
5°	4419.2	4311.8	4263.8	4517.5	5120.3	8967.9	21983.2	44649.8	86926.7	147430.4	237189.8
2.5°	4536.1	4433.9	4400.4	4711.7	5412.4	10245.3	25324.2	51210.6	100629.9	172792.1	281960.1
0°	4742.5	4530.1	4503.5	4808.1	5529.8	10826.9	27516.4	55167.2	107147.6	183643.7	303988.0
-2.5°	4906.4	4653.4	4602.8	4874.5	5581.5	10542.0	27294.1	55030.8	104488.5	180016.8	289999.3
-5°	5049.5	4795.6	4725.8	4978.2	5695.1	10531.3	25848.1	50493.9	93498.1	158183.8	244399.6
-7.5°	5176.8	4957.3	4853.9	5054.8	5710.1	9431.1	20906.8	41572.3	74735.4	123501.2	189162.6
-10°	5310.9	5142.4	5001.6	5136.0	5646.6	7503.9	13986.5	29967.0	53223.5	89561.6	134617.5
-12.5°	5464.3	5379.4	5172.5	5192.0	5560.7	6332.3	10337.4	20921.4	36951.1	56418.0	89077.4
-15°	5594.5	5590.6	5417.4	5362.3	5545.5	6040.3	7212.2	11618.3	22414.4	36266.6	52422.7
-17.5°	5621.6	5760.1	5693.8	5525.4	5536.2	5813.6	6296.6	7699.3	11259.0	19954.8	29567.4
-20°	5639.1	5934.9	5941.8	5805.1	5685.3	5654.3	5875.1	6284.3	7079.7	10018.3	13886.3



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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°	5665.8	5946.9	6146.9	6109.1	5873.9	5736.4	5686.9	5841.9	6111.1	6490.3	7745.3
-25°	5678.5	5940.9	6227.1	6305.6	6207.0	5955.3	5767.0	5661.8	5757.1	5877.4	6122.9
-27.5°	5624.4	5931.4	6209.0	6441.6	6470.0	6305.3	6028.6	5804.0	5716.7	5634.1	5735.2
-30°	5534.4	5877.4	6167.6	6453.8	6568.3	6515.6	6370.7	6188.5	5975.8	5810.3	5752.2
-32.5°	4797.6	5796.5	6093.8	6341.8	6530.6	6584.6	6586.1	6488.5	6397.6	6270.0	6120.6
-35°	3952.6	5060.7	6027.9	6152.8	6325.9	6504.6	6637.4	6642.0	6631.3	6570.8	6507.9
-37.5°	3072.6	4105.3	5035.4	5779.9	6041.8	6252.2	6479.5	6633.2	6729.7	6712.3	6700.7
-40°	2675.0	3000.5	3870.7	4629.7	5266.5	5865.6	6111.8	6387.9	6609.9	6687.2	6739.4
-42.5°	2552.2	2691.5	2833.1	3408.3	4064.3	4641.3	5183.9	5701.3	6163.4	6425.2	6607.4
-45°	2484.9	2562.3	2649.1	2777.2	2887.9	3365.8	3852.0	4324.2	4900.6	5431.2	5891.4
-47.5°	2422.6	2483.2	2550.3	2616.2	2677.7	2764.5	2839.8	2973.8	3405.5	3840.8	4277.7
-50°	2322.3	2422.5	2478.1	2527.3	2570.8	2611.1	2645.9	2706.4	2778.1	2840.5	2903.7
-52.5°	2154.6	2267.3	2374.4	2455.5	2489.5	2523.0	2557.2	2603.1	2645.5	2684.3	2714.1
-55°	1966.6	2080.7	2188.6	2270.8	2344.5	2412.4	2472.9	2513.6	2553.2	2591.4	2620.4
-57.5°	1759.8	1876.1	1981.7	2060.4	2134.2	2202.6	2269.2	2333.2	2391.8	2444.6	2489.6
-60°	1550.4	1648.6	1743.9	1827.2	1903.3	1971.9	2037.7	2100.7	2158.3	2210.1	2255.2
-62.5°	1353.8	1444.8	1520.2	1588.3	1653.7	1717.0	1783.6	1845.0	1900.7	1951.6	1998.3
-65°	1176.5	1254.9	1312.0	1365.4	1415.8	1470.1	1528.7	1582.7	1632.0	1677.7	1719.9
-67.5°	994.2	1062.0	1112.2	1158.4	1201.4	1244.7	1291.6	1335.2	1375.4	1413.9	1449.9
-70°	835.9	883.2	918.2	953.6	991.8	1030.8	1071.2	1107.9	1141.0	1172.5	1201.5
-72.5°	714.1	743.2	767.8	798.0	825.3	854.4	884.3	912.0	937.4	962.1	985.2
-75°	631.7	653.1	673.1	691.8	709.3	730.1	751.7	772.1	791.3	809.3	826.3
-77.5°	574.4	591.0	604.7	617.8	630.2	646.4	663.3	679.7	695.8	709.3	721.9
-80°	518.3	531.7	543.4	554.8	565.7	579.6	593.8	607.6	621.1	633.4	645.2
-82.5°	460.3	471.2	481.2	490.8	500.2	512.0	523.7	535.1	546.1	556.2	566.1
-85°	402.7	410.9	418.8	426.4	433.7	443.3	452.8	462.1	471.2	477.8	484.2
-87.5°	350.2	356.3	362.2	368.0	373.7	380.7	387.6	394.5	401.3	405.7	410.0
-90°	3.1	2.7	2.4	2.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6



REPORT NUMBER: P701630 (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°	362.4	365.5	364.8	364.0	364.8	365.5	362.4	359.3	356.1	353.0	347.9
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	2.9	2.9
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	3.5	3.1	3.1	3.1	3.1	3.1	3.5	3.9	4.2	4.4	4.6
72.5°	10.9	10.7	10.8	10.9	10.8	10.7	10.9	10.9	10.9	10.8	10.7
70°	17.3	18.4	18.6	18.7	18.6	18.4	17.3	16.3	15.4	15.0	15.5
67.5°	12.9	12.7	11.8	10.9	11.8	12.7	12.9	13.1	13.3	14.0	15.4
65°	8.2	8.0	7.8	7.8	7.8	8.0	8.2	8.6	9.0	10.0	11.7
62.5°	5.9	6.2	6.2	6.2	6.2	6.2	5.9	5.7	5.7	6.2	7.2
60°	4.3	4.7	4.7	4.7	4.7	4.7	4.3	4.0	3.7	4.0	4.4
57.5°	4.1	4.6	4.7	4.7	4.7	4.6	4.1	3.6	3.1	4.3	5.1
55°	11.9	12.2	11.8	10.9	11.8	12.2	11.9	11.2	10.2	13.0	13.5
52.5°	56.9	52.5	45.7	37.5	45.7	52.5	56.9	57.9	56.7	58.0	50.5
50°	198.2	203.5	198.8	184.3	198.8	203.5	198.2	187.3	181.7	182.1	164.0
47.5°	408.3	412.8	398.6	365.5	398.6	412.8	408.3	392.9	389.8	394.2	383.6
45°	854.8	848.2	774.6	621.7	774.6	848.2	854.8	827.9	791.7	729.8	642.6
42.5°	1474.2	1539.9	1578.6	1579.3	1578.6	1539.9	1474.2	1396.0	1392.7	1340.7	1238.2
40°	1908.1	1831.0	1747.0	1733.9	1747.0	1831.0	1908.1	1923.7	1933.4	1998.2	1939.4
37.5°	2153.9	2170.1	2160.8	1979.2	2160.8	2170.1	2153.9	2167.0	2172.6	2183.4	2171.5
35°	2232.2	2354.2	2479.8	2505.6	2479.8	2354.2	2232.2	2196.5	2212.0	2219.3	2233.2
32.5°	2270.0	2311.9	2323.2	2327.5	2323.2	2311.9	2270.0	2242.2	2236.0	2254.2	2284.4
30°	2476.6	2503.9	2500.0	2494.7	2500.0	2503.9	2476.6	2430.6	2330.8	2326.6	2355.2
27.5°	2852.8	2898.0	2918.2	2932.1	2918.2	2898.0	2852.8	2806.7	2708.9	2599.4	2479.5
25°	3391.3	3460.5	3507.9	3528.8	3507.9	3460.5	3391.3	3305.2	3147.8	2984.5	2827.8
22.5°	5491.7	5970.9	6445.2	6690.5	6445.2	5970.9	5491.7	4556.4	3746.7	3463.1	3249.0
20°	13709.6	15780.2	16725.9	17001.9	16725.9	15780.2	13709.6	9193.5	6565.7	4414.1	3815.2
17.5°	31926.7	39775.7	45025.5	40425.6	45025.5	39775.7	31926.7	22256.1	15077.6	8014.8	5188.3
15°	65346.8	85225.3	96348.8	90089.5	96348.8	85225.3	65346.8	44857.7	29910.7	18055.6	8900.0
12.5°	117736.1	148759.6	169596.1	162724.9	169596.1	148759.6	117736.1	83448.3	48358.0	31469.1	17464.1
10°	185314.1	247697.5	289236.0	299504.7	289236.0	247697.5	185314.1	128362.5	84676.1	46901.6	26182.6
7.5°	268926.2	346165.3	407133.9	416570.2	407133.9	346165.3	268926.2	186739.5	117036.8	66243.3	36210.7
5°	350723.6	441894.3	505330.9	521799.5	505330.9	441894.3	350723.6	237189.8	147430.4	86926.7	44649.8
2.5°	401492.9	500724.9	577137.6	610795.6	577137.6	500724.9	401492.9	281960.1	172792.1	100629.9	51210.6
0°	419613.9	523249.2	606156.9	654437.5	606156.9	523249.2	419613.9	303988.0	183643.7	107147.6	55167.2
-2.5°	405564.4	499415.8	569404.7	602967.8	569404.7	499415.8	405564.4	289999.3	180016.8	104488.5	55030.8
-5°	345426.4	438674.4	495618.7	522958.6	495618.7	438674.4	345426.4	244399.6	158183.8	93498.1	50493.9
-7.5°	269920.0	344553.7	393726.2	418599.3	393726.2	344553.7	269920.0	189162.6	123501.2	74735.4	41572.3
-10°	188862.9	248075.0	281221.3	301516.7	281221.3	248075.0	188862.9	134617.5	89561.6	53223.5	29967.0
-12.5°	122883.5	157348.4	175912.6	188915.8	175912.6	157348.4	122883.5	89077.4	56418.0	36951.1	20921.4
-15°	74597.6	91394.3	101473.2	107791.2	101473.2	91394.3	74597.6	52422.7	36266.6	22414.4	11618.3
-17.5°	41635.9	48850.4	53958.8	56785.5	53958.8	48850.4	41635.9	29567.4	19954.8	11259.0	7699.3
-20°	20659.9	25223.7	28221.5	29480.0	28221.5	25223.7	20659.9	13886.3	10018.3	7079.7	6284.3



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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°	9534.6	10753.8	11560.9	11945.4	11560.9	10753.8	9534.6	7745.3	6490.3	6111.1	5841.9
-25°	6361.6	6552.9	6693.4	6754.5	6693.4	6552.9	6361.6	6122.9	5877.4	5757.1	5661.8
-27.5°	5826.8	5928.1	6012.1	6045.3	6012.1	5928.1	5826.8	5735.2	5634.1	5716.7	5804.0
-30°	5707.7	5712.1	5735.9	5736.0	5735.9	5712.1	5707.7	5752.2	5810.3	5975.8	6188.5
-32.5°	6007.6	5941.8	5913.0	5943.8	5913.0	5941.8	6007.6	6120.6	6270.0	6397.6	6488.5
-35°	6465.9	6448.1	6449.6	6482.7	6449.6	6448.1	6465.9	6507.9	6570.8	6631.3	6642.0
-37.5°	6703.6	6717.6	6733.4	6737.3	6733.4	6717.6	6703.6	6700.7	6712.3	6729.7	6633.2
-40°	6769.7	6797.0	6817.6	6824.8	6817.6	6797.0	6769.7	6739.4	6687.2	6609.9	6387.9
-42.5°	6687.9	6742.3	6771.1	6778.0	6771.1	6742.3	6687.9	6607.4	6425.2	6163.4	5701.3
-45°	6225.5	6468.0	6605.1	6642.1	6605.1	6468.0	6225.5	5891.4	5431.2	4900.6	4324.2
-47.5°	4702.6	5083.2	5348.1	5470.5	5348.1	5083.2	4702.6	4277.7	3840.8	3405.5	2973.8
-50°	2969.9	3032.7	3079.6	3108.6	3079.6	3032.7	2969.9	2903.7	2840.5	2778.1	2706.4
-52.5°	2740.0	2763.1	2776.5	2782.1	2776.5	2763.1	2740.0	2714.1	2684.3	2645.5	2603.1
-55°	2645.3	2666.5	2675.9	2677.4	2675.9	2666.5	2645.3	2620.4	2591.4	2553.2	2513.6
-57.5°	2528.3	2560.8	2575.1	2577.5	2575.1	2560.8	2528.3	2489.6	2444.6	2391.8	2333.2
-60°	2293.4	2324.8	2340.4	2346.3	2340.4	2324.8	2293.4	2255.2	2210.1	2158.3	2100.7
-62.5°	2038.8	2073.0	2083.4	2082.3	2083.4	2073.0	2038.8	1998.3	1951.6	1900.7	1845.0
-65°	1756.7	1788.1	1797.0	1796.4	1797.0	1788.1	1756.7	1719.9	1677.7	1632.0	1582.7
-67.5°	1481.9	1509.5	1519.1	1521.5	1519.1	1509.5	1481.9	1449.9	1413.9	1375.4	1335.2
-70°	1226.9	1248.8	1254.3	1254.4	1254.3	1248.8	1226.9	1201.5	1172.5	1141.0	1107.9
-72.5°	1006.3	1025.1	1028.3	1027.9	1028.3	1025.1	1006.3	985.2	962.1	937.4	912.0
-75°	842.3	857.2	857.8	856.0	857.8	857.2	842.3	826.3	809.3	791.3	772.1
-77.5°	733.7	744.8	747.0	748.2	747.0	744.8	733.7	721.9	709.3	695.8	679.7
-80°	656.4	667.1	666.8	665.5	666.8	667.1	656.4	645.2	633.4	621.1	607.6
-82.5°	575.5	584.6	584.8	584.2	584.8	584.6	575.5	566.1	556.2	546.1	535.1
-85°	490.2	496.1	495.8	495.2	495.8	496.1	490.2	484.2	477.8	471.2	462.1
-87.5°	414.2	418.4	418.5	418.6	418.5	418.4	414.2	410.0	405.7	401.3	394.5
-90°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	342.9	337.8	332.7	326.9	321.0	315.2	309.3	300.7	292.1	283.5	274.9
87.5°	2.3	2.6	3.0	3.0	3.0	3.0	3.1	3.5	3.9	4.3	4.7
85°	2.4	2.7	3.1	3.1	3.1	3.1	3.1	3.5	3.9	4.3	4.7
82.5°	3.0	3.0	3.1	3.4	3.6	3.8	3.8	4.0	4.2	4.4	4.7
80°	3.1	3.1	3.2	3.6	4.0	4.4	4.7	4.8	4.7	4.7	4.8
77.5°	3.1	3.1	3.2	3.6	4.0	4.4	4.8	5.2	5.4	5.5	5.5
75°	4.6	4.6	4.6	4.9	4.9	4.7	4.8	5.2	5.6	6.0	6.2
72.5°	10.5	10.1	9.8	9.8	9.5	9.6	9.3	8.5	7.7	6.8	6.4
70°	16.0	16.4	17.3	18.4	18.6	18.2	17.6	16.0	13.3	11.4	10.3
67.5°	16.7	18.0	20.1	22.6	23.9	24.9	26.8	27.8	26.6	23.6	18.1
65°	13.6	15.8	18.2	20.2	22.8	26.2	33.1	36.9	37.9	36.7	30.6
62.5°	8.5	10.3	12.5	15.0	17.8	22.5	31.5	39.0	45.3	47.2	40.6
60°	4.6	5.0	7.5	10.0	12.4	17.6	27.0	36.9	47.4	48.6	46.5
57.5°	5.1	5.9	8.2	9.4	9.7	15.8	24.1	32.0	41.8	47.3	47.6
55°	11.3	13.3	15.8	16.2	15.7	22.6	26.8	31.5	40.5	46.2	49.7
52.5°	37.0	47.3	47.7	34.9	37.6	46.1	40.2	43.1	50.7	58.0	58.5
50°	146.4	149.6	134.8	109.8	119.9	106.9	94.6	79.3	90.2	92.4	79.8
47.5°	362.9	333.3	297.0	268.5	261.7	258.0	224.2	182.6	194.8	156.6	138.0
45°	616.8	572.2	513.8	465.2	426.4	408.9	401.2	375.1	350.3	316.3	222.0
42.5°	1157.2	948.6	776.1	701.0	598.6	555.7	531.9	527.7	516.1	494.4	422.7
40°	1811.7	1793.8	1492.5	1087.4	900.8	723.4	662.8	636.7	636.5	632.7	593.6
37.5°	2155.3	2110.3	2028.4	1840.0	1408.8	1103.9	879.2	756.8	726.0	724.5	697.4
35°	2234.6	2224.2	2221.5	2136.3	1995.7	1696.4	1305.6	983.6	834.2	800.2	785.4
32.5°	2293.5	2313.0	2323.2	2305.4	2316.3	2307.2	1934.4	1435.1	996.5	895.6	859.6
30°	2378.5	2406.8	2419.9	2462.6	2548.1	2584.9	2582.8	1997.7	1390.1	996.5	939.9
27.5°	2489.3	2512.1	2540.1	2683.3	2757.1	2808.5	2840.0	2670.7	1826.4	1274.2	1033.9
25°	2715.1	2643.4	2806.4	2953.7	3018.0	3046.2	3127.9	3051.8	2475.5	1600.5	1131.4
22.5°	3063.5	2965.2	3035.4	3275.8	3299.7	3317.9	3376.8	3395.0	3124.0	2072.1	1416.0
20°	3491.7	3309.0	3291.6	3417.7	3537.6	3558.5	3622.2	3651.7	3400.8	2648.3	1738.2
17.5°	4052.1	3686.5	3511.2	3551.2	3691.2	3762.5	3828.4	3848.6	3673.9	3167.2	2062.3
15°	5029.0	4123.4	3796.9	3720.9	3812.8	3934.0	4020.6	4084.9	3919.0	3503.7	2493.4
12.5°	8174.2	4622.5	4072.5	3841.5	3889.1	4058.8	4191.4	4270.9	4112.0	3729.0	2919.6
10°	11762.9	5916.2	4439.8	4072.6	3990.4	4138.3	4310.2	4363.6	4242.5	3915.0	3279.4
7.5°	17707.8	7597.9	4786.5	4296.1	4119.6	4205.7	4361.3	4427.8	4353.1	4061.7	3576.2
5°	21983.2	8967.9	5120.3	4517.5	4263.8	4311.8	4419.2	4493.9	4445.3	4175.4	3813.7
2.5°	25324.2	10245.3	5412.4	4711.7	4400.4	4433.9	4536.1	4562.6	4485.9	4189.9	3910.0
0°	27516.4	10826.9	5529.8	4808.1	4503.5	4530.1	4742.5	4634.8	4497.3	4172.4	3959.9
-2.5°	27294.1	10542.0	5581.5	4874.5	4602.8	4653.4	4906.4	4911.9	4600.7	4216.3	3998.5
-5°	25848.1	10531.3	5695.1	4978.2	4725.8	4795.6	5049.5	5082.6	4692.3	4276.1	3987.4
-7.5°	20906.8	9431.1	5710.1	5054.8	4853.9	4957.3	5176.8	5151.8	4800.9	4450.4	4035.2
-10°	13986.5	7503.9	5646.6	5136.0	5001.6	5142.4	5310.9	5218.2	4909.8	4613.4	4015.2
-12.5°	10337.4	6332.3	5560.7	5192.0	5172.5	5379.4	5464.3	5283.3	5027.2	4764.3	3919.3
-15°	7212.2	6040.3	5545.5	5362.3	5417.4	5590.6	5594.5	5324.9	5091.1	4865.1	3741.8
-17.5°	6296.6	5813.6	5536.2	5525.4	5693.8	5760.1	5621.6	5363.5	5116.1	4706.7	3412.9
-20°	5875.1	5654.3	5685.3	5805.1	5941.8	5934.9	5639.1	5391.2	5097.4	4274.2	3034.9



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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°	5686.9	5736.4	5873.9	6109.1	6146.9	5946.9	5665.8	5393.4	5033.9	3763.8	2642.8
-25°	5767.0	5955.3	6207.0	6305.6	6227.1	5940.9	5678.5	5339.4	4484.7	3258.5	2300.4
-27.5°	6028.6	6305.3	6470.0	6441.6	6209.0	5931.4	5624.4	5134.2	3850.4	2812.8	2284.1
-30°	6370.7	6515.6	6568.3	6453.8	6167.6	5877.4	5534.4	4384.7	3278.1	2441.7	2246.5
-32.5°	6586.1	6584.6	6530.6	6341.8	6093.8	5796.5	4797.6	3633.5	2688.3	2387.8	2220.0
-35°	6637.4	6504.6	6325.9	6152.8	6027.9	5060.7	3952.6	2947.1	2515.6	2332.8	2195.3
-37.5°	6479.5	6252.2	6041.8	5779.9	5035.4	4105.3	3072.6	2608.8	2429.3	2300.7	2174.7
-40°	6111.8	5865.6	5266.5	4629.7	3870.7	3000.5	2675.0	2497.3	2381.0	2269.5	2153.7
-42.5°	5183.9	4641.3	4064.3	3408.3	2833.1	2691.5	2552.2	2440.8	2334.8	2235.1	2072.4
-45°	3852.0	3365.8	2887.9	2777.2	2649.1	2562.3	2484.9	2390.7	2295.8	2140.4	1966.6
-47.5°	2839.8	2764.5	2677.7	2616.2	2550.3	2483.2	2422.6	2342.5	2181.1	2015.9	1836.9
-50°	2645.9	2611.1	2570.8	2527.3	2478.1	2422.5	2322.3	2198.1	2039.4	1871.3	1699.5
-52.5°	2557.2	2523.0	2489.5	2455.5	2374.4	2267.3	2154.6	2027.4	1879.9	1716.5	1551.9
-55°	2472.9	2412.4	2344.5	2270.8	2188.6	2080.7	1966.6	1842.5	1704.7	1550.8	1403.8
-57.5°	2269.2	2202.6	2134.2	2060.4	1981.7	1876.1	1759.8	1640.8	1521.1	1384.5	1253.8
-60°	2037.7	1971.9	1903.3	1827.2	1743.9	1648.6	1550.4	1444.7	1331.6	1227.3	1121.8
-62.5°	1783.6	1717.0	1653.7	1588.3	1520.2	1444.8	1353.8	1265.0	1174.5	1081.1	983.7
-65°	1528.7	1470.1	1415.8	1365.4	1312.0	1254.9	1176.5	1095.8	1013.0	928.5	842.6
-67.5°	1291.6	1244.7	1201.4	1158.4	1112.2	1062.0	994.2	921.7	856.7	793.3	726.3
-70°	1071.2	1030.8	991.8	953.6	918.2	883.2	835.9	781.8	725.8	679.3	636.2
-72.5°	884.3	854.4	825.3	798.0	767.8	743.2	714.1	678.2	641.3	603.4	568.2
-75°	751.7	730.1	709.3	691.8	673.1	653.1	631.7	605.1	578.5	552.1	525.4
-77.5°	663.3	646.4	630.2	617.8	604.7	591.0	574.4	551.3	528.3	505.2	481.8
-80°	593.8	579.6	565.7	554.8	543.4	531.7	518.3	498.3	478.2	457.8	437.2
-82.5°	523.7	512.0	500.2	490.8	481.2	471.2	460.3	443.1	425.8	408.5	391.1
-85°	452.8	443.3	433.7	426.4	418.8	410.9	402.7	388.5	374.2	359.8	345.3
-87.5°	387.6	380.7	373.7	368.0	362.2	356.3	350.2	339.0	327.9	316.8	305.8
-90°	1.6	1.6	1.6	2.0	2.4	2.7	3.1	3.5	3.9	4.3	4.7



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	264.8	254.6	244.5	234.3	220.6	207.0	193.3	179.6	165.2	150.7	136.3
87.5°	4.7	4.7	4.7	4.7	5.1	5.5	5.8	6.2	6.2	6.2	6.2
85°	4.7	4.7	4.7	4.7	5.1	5.5	5.8	6.2	6.2	6.2	6.2
82.5°	4.7	4.7	4.7	4.7	5.1	5.5	5.9	6.2	6.3	6.2	6.2
80°	5.0	5.2	5.2	5.2	5.4	5.5	5.9	6.3	6.7	6.8	6.7
77.5°	5.5	5.7	5.9	6.1	6.2	6.3	6.4	6.5	7.1	7.4	7.4
75°	6.2	6.1	6.1	6.5	7.0	7.1	7.1	7.4	8.1	8.1	8.2
72.5°	6.6	6.7	6.5	6.8	7.6	8.1	8.1	8.4	9.4	9.6	9.3
70°	9.0	7.8	7.4	8.2	9.0	9.1	9.4	10.2	10.8	11.2	10.9
67.5°	13.2	11.7	10.2	10.3	11.1	11.5	11.0	12.3	13.3	12.9	12.6
65°	24.1	18.4	14.2	15.1	14.8	14.1	13.9	15.1	16.0	15.8	14.4
62.5°	34.0	27.5	23.2	21.5	20.3	19.0	17.2	19.2	19.2	18.9	17.1
60°	42.8	35.7	33.3	32.1	28.5	24.8	23.9	23.6	23.8	22.1	20.3
57.5°	45.3	42.6	45.3	44.0	39.9	33.8	32.0	31.2	28.6	26.6	23.9
55°	47.5	48.0	58.3	58.6	53.1	45.6	43.4	40.9	34.8	31.5	28.2
52.5°	55.0	62.6	73.2	75.3	69.4	61.1	59.8	51.6	45.3	36.6	34.1
50°	72.7	87.0	95.6	96.2	87.8	84.7	77.8	68.5	56.4	43.5	40.6
47.5°	122.7	134.9	127.4	122.9	112.8	112.4	103.4	87.3	68.3	54.5	47.6
45°	222.9	211.4	183.0	159.5	150.2	149.0	134.1	107.4	86.7	68.0	55.1
42.5°	344.8	320.3	277.2	201.4	202.1	192.0	168.0	137.3	106.0	82.2	65.7
40°	510.4	448.8	389.1	310.6	261.7	239.8	210.9	170.9	126.4	98.7	78.4
37.5°	661.6	585.1	518.9	418.7	335.4	300.1	258.1	206.7	152.9	119.3	91.5
35°	753.0	708.8	633.7	523.3	430.4	365.0	308.6	247.0	186.0	140.4	104.8
32.5°	831.7	805.3	728.8	623.4	519.9	434.5	366.5	289.0	218.6	161.8	118.3
30°	904.8	877.0	823.1	716.2	604.9	512.8	424.9	329.3	250.4	183.6	132.9
27.5°	981.4	949.1	911.8	802.8	686.6	586.2	474.4	367.6	281.3	207.4	150.8
25°	1060.2	1019.7	978.4	888.1	762.2	644.5	521.8	404.4	313.2	233.4	168.5
22.5°	1149.9	1087.5	1044.7	972.6	830.8	703.4	569.2	444.7	344.4	258.5	186.0
20°	1238.6	1153.0	1108.5	1040.8	898.9	762.2	617.9	482.9	373.7	282.5	203.2
17.5°	1357.7	1222.1	1159.1	1088.9	962.9	818.9	665.6	518.7	401.2	305.4	219.9
15°	1637.4	1296.6	1209.5	1135.4	1021.2	873.2	712.0	552.1	426.9	327.0	235.3
12.5°	1930.2	1370.4	1260.0	1180.0	1073.7	924.6	756.4	582.9	450.5	346.7	248.7
10°	2225.3	1442.6	1309.8	1222.6	1120.9	972.9	798.4	614.5	476.4	364.6	261.0
7.5°	2511.6	1512.1	1358.3	1262.9	1163.1	1014.6	838.1	651.5	501.6	381.3	272.2
5°	2756.7	1573.6	1407.1	1306.3	1202.1	1048.7	872.8	686.1	525.4	396.5	282.1
2.5°	2875.2	1622.7	1454.3	1348.2	1237.3	1078.0	902.6	718.0	547.3	410.0	290.9
0°	2943.0	1665.2	1498.1	1387.1	1268.4	1102.8	927.9	746.7	567.0	421.8	298.4
-2.5°	2938.0	1705.4	1540.0	1428.1	1312.8	1136.5	948.6	762.7	582.2	435.6	308.6
-5°	2885.3	1739.9	1578.3	1466.1	1351.8	1164.9	964.9	775.1	594.7	447.2	317.4
-7.5°	2847.6	1779.3	1616.0	1501.8	1384.8	1187.1	976.6	783.8	604.6	456.7	324.9
-10°	2766.5	1818.2	1654.1	1535.2	1404.9	1201.8	984.4	788.9	611.8	463.8	330.8
-12.5°	2623.3	1848.8	1687.2	1564.2	1417.8	1210.1	993.4	794.2	616.7	468.4	335.1
-15°	2415.5	1870.7	1715.1	1588.7	1424.6	1212.9	997.1	797.3	621.1	471.0	337.7
-17.5°	2140.9	1883.3	1737.5	1608.3	1425.2	1210.2	995.3	796.0	622.4	471.9	339.7
-20°	2096.7	1898.9	1754.3	1622.7	1419.5	1202.2	988.0	790.3	620.5	470.3	340.7



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2098.8	1918.9	1773.1	1614.6	1406.3	1188.9	975.1	780.2	615.4	466.1	339.8
-25°	2092.4	1932.4	1789.7	1605.9	1385.9	1170.0	958.4	765.5	607.0	459.3	336.9
-27.5°	2094.0	1941.2	1802.9	1589.4	1365.9	1144.6	938.2	753.0	596.0	450.0	332.2
-30°	2094.4	1950.6	1784.4	1563.6	1337.9	1116.2	912.8	737.1	583.0	441.2	325.4
-32.5°	2082.3	1956.9	1749.9	1525.4	1300.9	1081.6	884.0	717.3	567.0	431.9	321.7
-35°	2072.0	1919.5	1706.1	1478.4	1255.8	1046.0	855.0	693.7	548.0	420.2	318.2
-37.5°	2052.8	1852.4	1645.4	1421.9	1202.9	1004.5	826.9	669.4	526.1	406.0	313.4
-40°	1971.7	1772.8	1566.4	1356.2	1149.0	957.1	793.6	641.7	505.8	389.4	307.1
-42.5°	1881.1	1679.2	1478.7	1280.3	1090.8	914.7	755.7	609.4	483.8	377.4	299.5
-45°	1771.6	1576.9	1383.2	1202.9	1028.3	867.1	714.7	573.9	458.8	367.1	292.9
-47.5°	1653.5	1465.9	1287.5	1119.5	968.7	814.4	668.6	542.5	431.3	355.1	288.7
-50°	1525.7	1353.3	1190.3	1040.4	899.5	757.2	620.7	507.7	414.4	340.6	283.6
-52.5°	1394.6	1241.3	1096.1	959.8	825.9	694.5	577.9	471.6	395.5	330.2	277.5
-55°	1262.0	1134.0	1003.3	873.9	747.6	637.9	531.7	447.3	374.5	321.1	270.8
-57.5°	1139.7	1027.0	904.2	782.7	675.6	579.5	494.3	420.8	360.5	311.1	265.0
-60°	1016.4	910.2	799.3	699.6	606.7	528.4	461.3	396.8	348.0	300.7	257.9
-62.5°	886.3	792.8	707.6	619.4	549.0	487.6	429.2	381.3	334.4	291.2	250.0
-65°	767.8	692.1	617.9	560.3	502.8	450.6	409.8	364.7	321.8	280.9	241.3
-67.5°	658.7	610.2	561.5	508.7	466.3	427.4	389.0	348.9	308.8	269.9	232.0
-70°	592.2	548.0	511.9	476.4	439.6	403.6	369.4	332.9	295.0	257.7	222.0
-72.5°	538.2	508.2	478.3	446.3	413.2	380.9	349.3	315.9	279.7	244.9	211.4
-75°	498.2	471.3	444.8	417.1	386.9	357.3	327.7	297.0	263.6	231.4	200.2
-77.5°	458.0	434.3	411.1	386.5	358.7	331.5	304.7	277.4	246.7	217.0	188.4
-80°	416.4	395.6	375.0	353.8	329.2	304.9	280.8	256.5	228.9	202.1	176.2
-82.5°	373.4	355.8	338.1	319.9	298.4	277.0	256.0	234.9	210.5	186.7	164.8
-85°	330.4	315.4	300.3	285.1	266.7	248.6	231.7	214.7	194.5	174.8	155.6
-87.5°	294.0	282.1	270.3	258.4	243.2	227.9	212.6	197.3	180.0	162.9	146.0
-90°	4.7	4.7	4.7	4.7	5.1	5.5	5.8	6.2	6.2	6.2	6.2



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	121.8	101.5	81.2	60.9	40.6	25.0	9.4
87.5°	6.2	6.4	6.5	6.5	6.5	8.1	9.4
85°	6.2	6.6	6.8	6.8	6.8	8.4	9.4
82.5°	6.2	6.7	7.0	7.1	7.1	8.6	9.4
80°	6.4	6.9	7.3	7.5	7.4	8.9	9.4
77.5°	7.3	7.5	7.6	7.8	7.7	9.2	9.4
75°	8.2	8.5	8.1	8.1	8.1	9.5	9.4
72.5°	9.2	9.7	9.2	8.5	8.4	9.8	9.4
70°	10.4	10.8	10.4	8.9	8.8	10.1	9.4
67.5°	12.4	12.1	11.6	10.0	9.2	10.4	9.4
65°	14.6	13.8	12.7	11.0	9.7	10.7	9.4
62.5°	16.9	16.1	14.0	12.0	10.1	11.0	9.4
60°	19.3	18.5	15.2	13.1	10.6	11.3	9.4
57.5°	23.1	20.9	17.4	14.1	11.7	11.7	9.4
55°	27.3	23.5	19.6	15.2	12.8	12.0	9.4
52.5°	31.8	26.4	21.9	16.3	13.9	12.3	9.4
50°	36.5	30.5	24.2	17.3	15.1	12.6	9.4
47.5°	41.6	34.8	26.6	18.6	16.2	13.0	9.4
45°	48.2	39.1	29.0	20.4	17.5	13.3	9.4
42.5°	55.0	43.6	31.4	22.2	18.7	13.7	9.4
40°	62.2	48.2	34.4	24.6	20.0	14.0	9.4
37.5°	69.6	52.9	38.0	27.4	21.4	14.3	9.4
35°	77.2	58.5	41.6	30.2	22.7	14.7	9.4
32.5°	86.0	64.5	45.2	33.1	24.1	15.0	9.4
30°	96.9	70.6	48.7	36.0	25.4	15.3	9.4
27.5°	107.8	76.7	53.8	38.9	26.8	15.7	9.4
25°	118.6	82.8	58.9	41.8	28.2	16.0	9.4
22.5°	129.3	89.3	64.1	44.8	29.6	16.3	9.4
20°	139.7	96.7	69.2	47.7	31.0	16.6	9.4
17.5°	150.1	103.8	74.2	50.6	32.3	16.9	9.4
15°	160.3	110.7	79.0	53.4	33.6	17.2	9.4
12.5°	169.8	117.3	83.8	56.2	34.9	17.5	9.4
10°	178.7	123.6	88.4	59.0	36.2	17.8	9.4
7.5°	187.0	129.6	92.8	61.6	37.4	18.0	9.4
5°	194.6	135.2	97.0	64.1	38.5	18.3	9.4
2.5°	201.6	140.4	101.0	66.5	39.6	18.5	9.4
0°	207.8	145.3	104.7	68.7	40.6	18.7	9.4
-2.5°	215.2	151.3	109.4	72.3	42.8	19.6	9.4
-5°	221.8	157.0	113.8	75.8	44.9	20.5	9.4
-7.5°	227.6	162.1	117.9	79.0	47.0	21.4	9.4
-10°	232.7	166.9	121.7	82.1	48.9	22.2	9.4
-12.5°	236.9	171.2	125.2	85.0	50.7	23.0	9.4
-15°	240.3	175.0	128.4	87.6	52.3	23.8	9.4
-17.5°	242.9	178.3	131.3	90.0	53.9	24.5	9.4
-20°	245.1	181.2	133.9	92.2	55.3	25.2	9.4



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	247.2	183.5	136.2	94.1	56.5	25.9	9.4
-25°	248.2	185.8	138.2	95.8	57.6	26.5	9.4
-27.5°	248.2	187.7	139.8	97.2	58.5	27.1	9.4
-30°	247.0	188.9	141.2	98.3	59.3	27.6	9.4
-32.5°	244.9	189.6	142.3	99.2	59.9	28.1	9.4
-35°	244.1	189.7	143.1	99.8	60.4	28.6	9.4
-37.5°	243.6	189.6	143.4	100.1	60.6	28.9	9.4
-40°	242.3	189.5	143.3	100.2	60.7	29.3	9.4
-42.5°	240.3	189.0	142.9	99.9	60.6	29.5	9.4
-45°	237.5	187.8	142.1	99.3	60.4	29.8	9.4
-47.5°	234.0	186.2	141.0	98.5	59.9	29.9	9.4
-50°	231.0	184.0	139.4	97.5	59.3	30.0	9.4
-52.5°	227.6	181.3	137.5	96.2	58.6	30.1	9.4
-55°	223.5	178.1	135.1	94.7	57.6	30.1	9.4
-57.5°	218.8	174.5	132.4	92.9	56.5	30.0	9.4
-60°	213.4	170.3	129.3	90.9	55.3	29.9	9.4
-62.5°	207.5	165.7	126.0	88.6	54.7	29.8	9.4
-65°	200.9	160.6	122.3	86.1	54.0	29.6	9.4
-67.5°	193.8	155.1	118.3	83.3	53.1	29.3	9.4
-70°	186.2	149.2	113.9	80.3	52.1	29.0	9.4
-72.5°	178.1	142.9	109.2	78.2	51.1	28.7	9.4
-75°	169.4	136.2	104.3	76.2	49.8	28.3	9.4
-77.5°	160.3	129.1	100.7	74.0	48.5	27.8	9.4
-80°	150.8	123.4	97.2	71.7	47.1	27.3	9.4
-82.5°	143.7	118.3	93.5	69.2	45.6	26.8	9.4
-85°	136.7	112.9	89.6	66.6	44.0	26.2	9.4
-87.5°	129.4	107.3	85.5	63.8	42.3	25.6	9.4
-90°	6.2	6.2	6.2	6.2	6.2	7.8	9.4

(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

