

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: P731693 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-57-70-1S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731693 (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-57-70-1S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 1S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

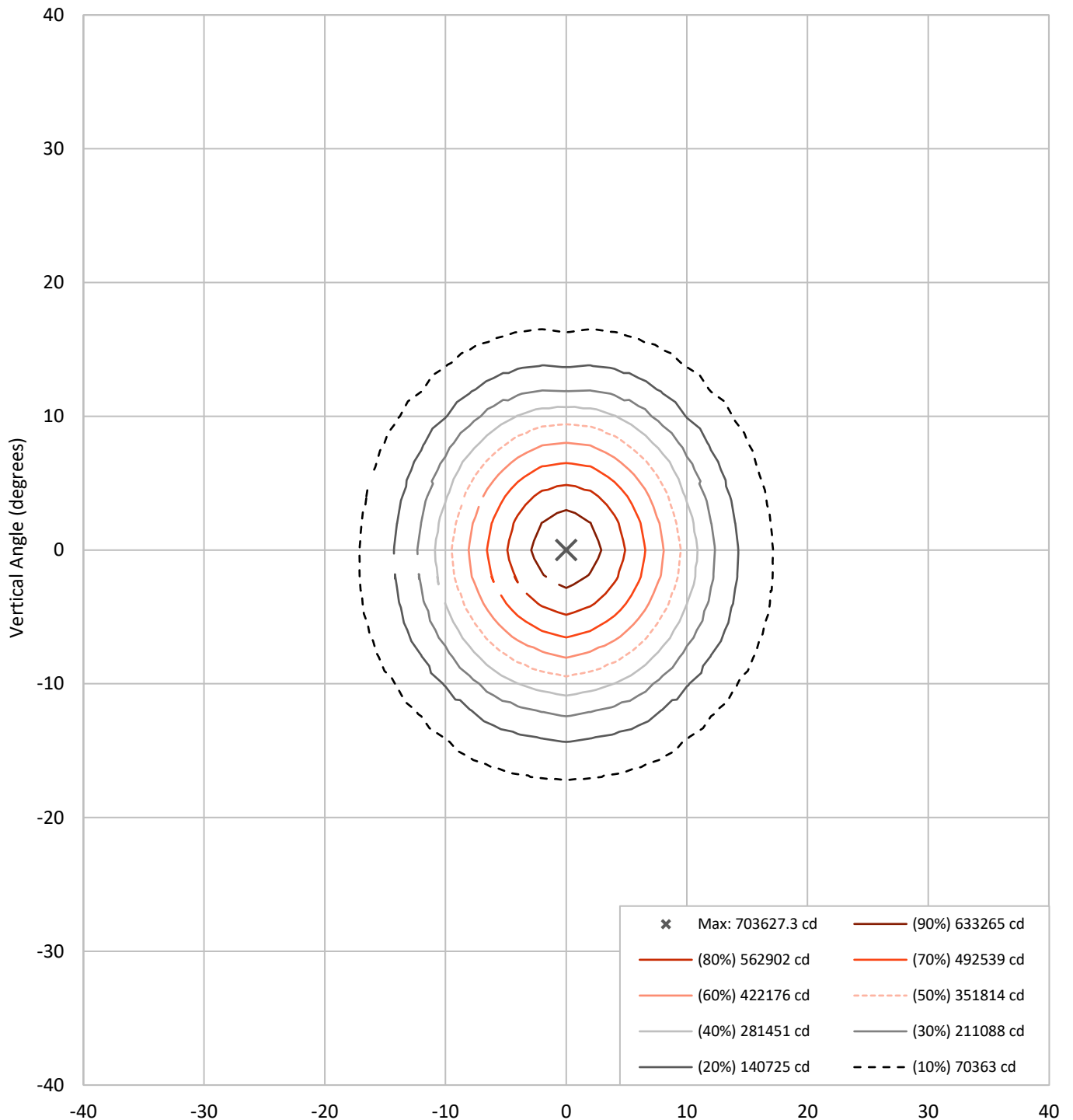
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	92744.8 lumens	Max Intensity:	703627.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	128.0 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:	41112.2 lumens	Field Lumens:	74879.5 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





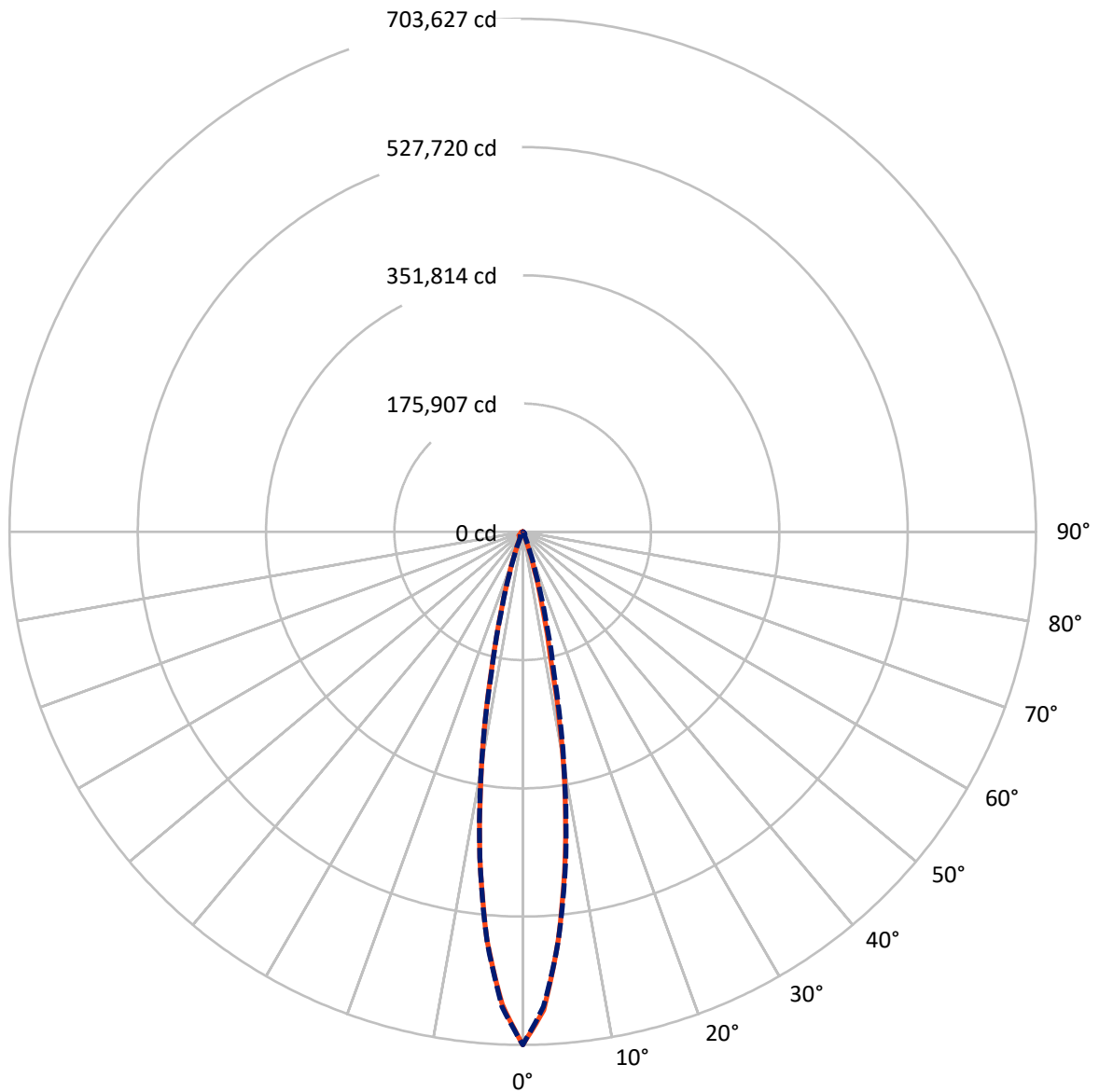
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Lumen Table

90	0.3	1.2	2.4	3.2	3.5	3.2	2.4	1.2	0.3									
80	0.3	1.2	2.4	3.2	3.5	3.2	2.4	1.2	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	1.0	1.0	1.3	1.4	1.4	1.3	1.0	1.0	1.2	1.1	0.6			
50	1.3	1.6	3.5	6.7	10.5	18.1	27.5	30.4	30.4	27.5	18.1	10.5	6.7	3.5	1.6	1.3		
40		3.6	10.0	18.1	38.0	62.0	69.5	72.9	72.9	69.5	62.0	38.0	18.1	10.0	3.6			
30	3.0	6.0	16.3	33.5	79.8	84.7	102.7	170.1	170.1	102.7	84.7	79.8	33.5	16.3	6.0	3.0		
20		8.1	21.0	59.7	105.7	124.8	777.2	3097.0	3097.0	777.2	124.8	105.7	59.7	21.0	8.1			
10	4.5	9.9	24.6	79.1	117.9	232.8	3140.2	13064.6	13064.6	3140.2	232.8	117.9	79.1	24.6	9.9	4.5		
0		11.1	27.6	84.4	131.2	260.4	3301.2	13001.7	13001.7	3301.2	260.4	131.2	84.4	27.6	11.1			
-10	5.2	11.5	29.6	83.4	145.3	179.0	916.6	3355.7	3355.7	916.6	179.0	145.3	83.4	29.6	11.5	5.2		
-20		11.1	29.9	64.5	148.0	181.3	197.8	307.1	307.1	197.8	181.3	148.0	64.5	29.9	11.1			
-30	5.0	10.0	27.9	51.4	108.4	182.2	204.7	207.0	207.0	204.7	182.2	108.4	51.4	27.9	10.0	5.0		
-40		8.4	22.9	45.0	67.2	101.5	150.4	187.6	187.6	150.4	101.5	67.2	45.0	22.9	8.4			
-50	4.2	6.5	16.6	32.8	52.3	68.1	79.4	86.6	86.6	79.4	68.1	52.3	32.8	16.6	6.5	4.2		
-60		5.1	10.9	20.0	31.6	42.4	51.7	57.9	57.9	51.7	42.4	31.6	20.0	10.9	5.1			
-70	2.9	19.5	46.7	73.4	87.6	73.4	46.7	19.5	2.9							2.9		
-80		19.5	46.7	73.4	87.6	73.4	46.7	19.5	2.9									
-90	2.9	19.5	46.7	73.4	87.6	73.4	46.7	19.5	2.9									

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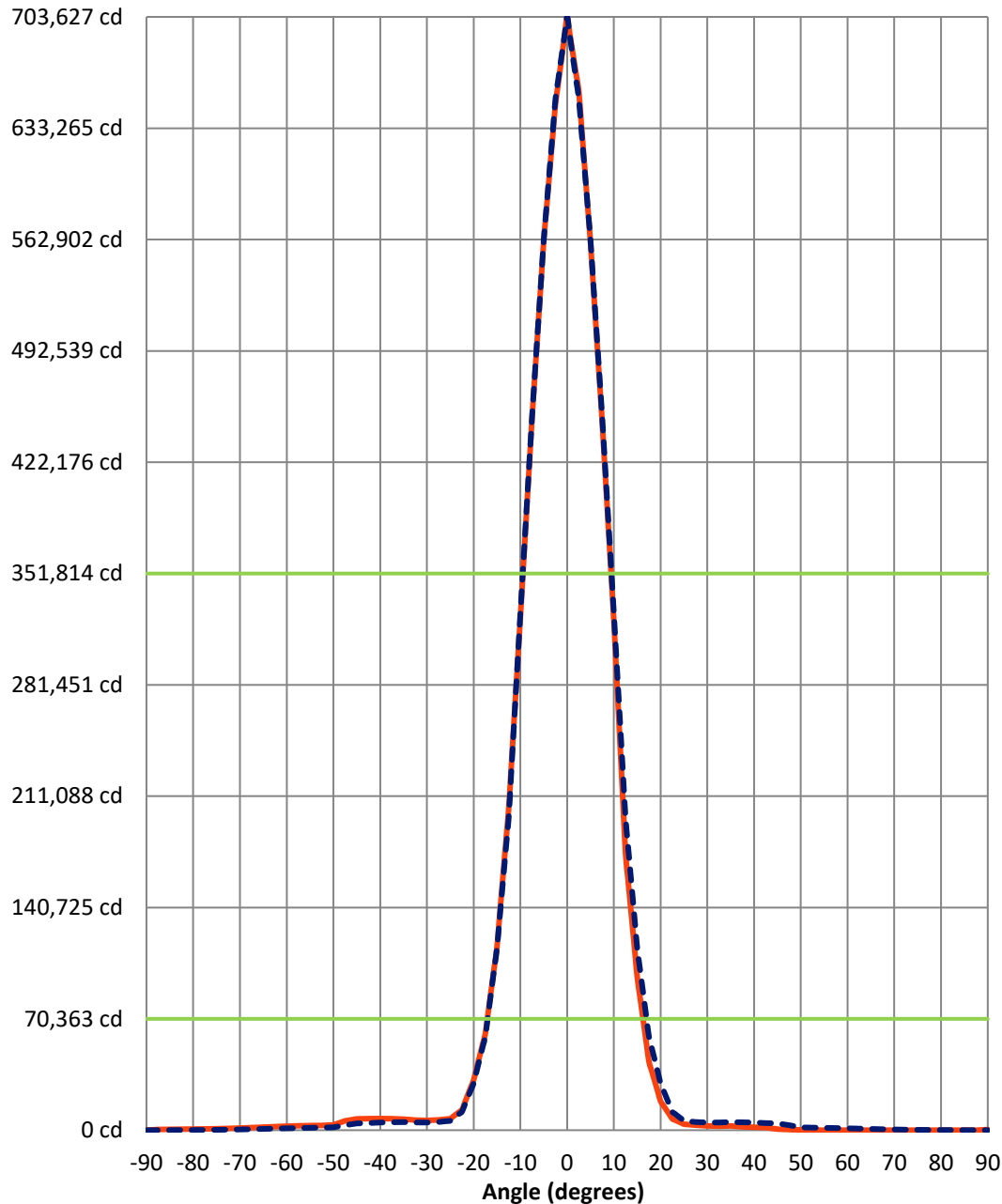
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 19°
 V Angle: 18.9°
 Lumens: 41112.2
 Efficiency: 44.3%

Field:
 H Angle: 34°
 V Angle: 33.3°
 Lumens: 74879.5
 Efficiency: 80.7%

Spill:
 Lumens: 17865.3
 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°	10.1	26.9	43.7	65.5	87.3	109.2	131.0	146.5	162.1	177.6	193.1
87.5°	10.1	8.7	7.0	7.0	7.0	6.9	6.7	6.7	6.7	6.7	6.7
85°	10.1	9.0	7.3	7.4	7.3	7.1	6.7	6.7	6.7	6.7	6.7
82.5°	10.1	9.3	7.6	7.7	7.6	7.3	6.7	6.7	6.7	6.8	6.7
80°	10.1	9.6	8.0	8.0	7.9	7.5	6.9	7.2	7.3	7.2	6.8
77.5°	10.1	9.9	8.3	8.4	8.2	8.0	7.8	8.0	8.0	7.6	7.1
75°	10.1	10.2	8.7	8.7	8.7	9.2	8.9	8.9	8.8	8.7	8.0
72.5°	10.1	10.6	9.1	9.1	9.9	10.4	9.9	9.9	10.4	10.1	9.1
70°	10.1	10.9	9.5	9.6	11.2	11.7	11.2	11.7	12.1	11.6	11.0
67.5°	10.1	11.2	9.9	10.7	12.5	13.0	13.4	13.6	13.9	14.3	13.3
65°	10.1	11.5	10.4	11.8	13.7	14.9	15.7	15.5	17.0	17.3	16.3
62.5°	10.1	11.9	10.9	13.0	15.1	17.3	18.2	18.4	20.3	20.7	20.7
60°	10.1	12.2	11.4	14.1	16.4	19.9	20.8	21.9	23.8	25.6	25.4
57.5°	10.1	12.6	12.6	15.2	18.7	22.5	24.9	25.7	28.6	30.7	33.5
55°	10.1	12.9	13.7	16.4	21.1	25.3	29.4	30.3	33.8	37.4	44.0
52.5°	10.1	13.3	15.0	17.6	23.6	28.4	34.2	36.6	39.3	48.6	55.5
50°	10.1	13.6	16.2	18.7	26.1	32.8	39.2	43.6	46.7	60.7	73.7
47.5°	10.1	14.0	17.5	20.1	28.6	37.4	44.8	51.1	58.5	73.4	93.9
45°	10.1	14.4	18.8	22.0	31.2	42.1	51.8	59.2	73.1	93.2	115.5
42.5°	10.1	14.7	20.2	23.9	33.7	46.9	59.2	70.6	88.3	113.9	147.6
40°	10.1	15.1	21.6	26.5	37.0	51.9	66.8	84.3	106.1	135.9	183.7
37.5°	10.1	15.5	23.0	29.5	40.9	56.9	74.8	98.3	128.3	164.4	222.3
35°	10.1	15.8	24.5	32.5	44.7	62.9	82.9	112.6	150.9	200.0	265.6
32.5°	10.1	16.2	25.9	35.6	48.6	69.4	92.4	127.1	174.0	235.0	310.7
30°	10.1	16.5	27.4	38.7	52.4	76.0	104.1	142.9	197.4	269.2	354.0
27.5°	10.1	16.9	28.9	41.9	57.8	82.5	115.9	162.1	223.0	302.4	395.2
25°	10.1	17.3	30.4	45.0	63.4	89.0	127.5	181.2	251.0	336.7	434.7
22.5°	10.1	17.6	31.9	48.2	68.9	96.0	138.9	200.0	277.9	370.2	478.1
20°	10.1	17.9	33.4	51.3	74.4	103.9	150.1	218.5	303.8	401.8	519.2
17.5°	10.1	18.3	34.8	54.4	79.8	111.6	161.4	236.4	328.3	431.4	557.7
15°	10.1	18.6	36.2	57.5	85.0	119.0	172.3	253.0	351.6	458.9	593.5
12.5°	10.1	18.9	37.6	60.5	90.1	126.1	182.5	267.4	372.7	484.4	626.6
10°	10.1	19.2	39.0	63.4	95.0	132.9	192.1	280.7	392.0	512.2	660.7
7.5°	10.1	19.5	40.3	66.2	99.7	139.3	201.0	292.6	409.9	539.3	700.4
5°	10.1	19.7	41.5	68.9	104.3	145.3	209.2	303.3	426.3	564.9	737.6
2.5°	10.1	20.0	42.6	71.5	108.5	151.0	216.7	312.7	440.8	588.5	771.9
0°	10.1	20.2	43.7	73.9	112.5	156.2	223.4	320.8	453.5	609.7	802.8
-2.5°	10.1	21.2	46.1	77.8	117.5	162.7	231.3	331.8	468.3	626.0	820.0
-5°	10.1	22.1	48.4	81.5	122.3	168.7	238.4	341.3	480.9	639.5	833.3
-7.5°	10.1	23.1	50.5	85.0	126.7	174.3	244.7	349.3	491.0	650.1	842.7
-10°	10.1	24.0	52.6	88.3	130.8	179.4	250.1	355.6	498.6	657.8	848.2
-12.5°	10.1	24.8	54.5	91.4	134.6	184.1	254.7	360.3	503.6	663.1	853.9
-15°	10.1	25.7	56.3	94.2	138.0	188.2	258.4	363.1	506.4	667.8	857.2
-17.5°	10.1	26.5	57.9	96.8	141.2	191.8	261.1	365.2	507.4	669.2	855.8
-20°	10.1	27.2	59.4	99.1	144.0	194.8	263.5	366.2	505.6	667.1	849.7



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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°	10.1	27.9	60.8	101.2	146.4	197.4	265.7	365.3	501.1	661.6	838.8
-25°	10.1	28.6	61.9	103.0	148.6	199.8	266.9	362.2	493.8	652.6	823.0
-27.5°	10.1	29.2	63.0	104.5	150.4	201.8	266.8	357.1	483.8	640.8	809.6
-30°	10.1	29.8	63.8	105.7	151.8	203.2	265.7	349.9	474.4	626.8	792.4
-32.5°	10.1	30.3	64.4	106.7	153.0	203.9	263.3	345.9	464.4	609.6	771.2
-35°	10.1	30.8	64.9	107.3	153.8	204.0	262.5	342.2	451.8	589.2	745.8
-37.5°	10.1	31.2	65.2	107.6	154.2	203.8	262.0	336.9	436.5	565.6	719.7
-40°	10.1	31.5	65.3	107.7	154.1	203.8	260.6	330.2	418.7	543.8	689.8
-42.5°	10.1	31.8	65.2	107.4	153.6	203.2	258.4	322.1	405.8	520.2	655.1
-45°	10.1	32.0	64.9	106.8	152.8	202.0	255.4	315.0	394.7	493.3	617.0
-47.5°	10.1	32.2	64.5	105.9	151.6	200.2	251.6	310.5	381.9	463.7	583.2
-50°	10.1	32.3	63.8	104.8	149.9	197.8	248.4	304.9	366.2	445.6	545.9
-52.5°	10.1	32.4	63.0	103.5	147.8	194.9	244.7	298.4	355.0	425.2	507.1
-55°	10.1	32.4	62.0	101.8	145.3	191.5	240.3	291.2	345.3	402.7	481.0
-57.5°	10.1	32.3	60.8	99.9	142.3	187.6	235.2	284.9	334.5	387.7	452.5
-60°	10.1	32.2	59.4	97.7	139.0	183.2	229.4	277.3	323.3	374.1	426.7
-62.5°	10.1	32.1	58.8	95.3	135.4	178.2	223.1	268.7	313.1	359.5	410.0
-65°	10.1	31.8	58.1	92.5	131.5	172.7	216.1	259.5	302.0	346.0	392.1
-67.5°	10.1	31.6	57.1	89.6	127.2	166.8	208.4	249.4	290.1	332.0	375.1
-70°	10.1	31.2	56.1	86.3	122.5	160.5	200.2	238.7	277.1	317.2	358.0
-72.5°	10.1	30.8	54.9	84.1	117.5	153.7	191.5	227.3	263.3	300.8	339.6
-75°	10.1	30.4	53.6	82.0	112.1	146.5	182.2	215.3	248.8	283.5	319.4
-77.5°	10.1	29.9	52.2	79.6	108.3	138.9	172.4	202.6	233.4	265.3	298.3
-80°	10.1	29.4	50.7	77.1	104.5	132.7	162.1	189.5	217.3	246.1	275.9
-82.5°	10.1	28.8	49.1	74.4	100.5	127.2	154.5	177.2	200.7	226.3	252.6
-85°	10.1	28.2	47.4	71.6	96.3	121.5	147.0	167.3	188.0	209.1	230.8
-87.5°	10.1	27.6	45.6	68.6	91.9	115.4	139.1	157.0	175.1	193.5	212.1
-90°	10.1	8.4	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7



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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°	207.8	222.5	237.2	251.9	262.8	273.8	284.7	295.6	304.8	314.1	323.3
87.5°	6.3	5.9	5.4	5.0	5.0	5.0	5.0	5.0	4.6	4.2	3.8
85°	6.3	5.9	5.4	5.0	5.0	5.0	5.0	5.0	4.6	4.2	3.8
82.5°	6.3	5.9	5.5	5.0	5.0	5.0	5.0	5.0	4.7	4.5	4.3
80°	6.3	5.9	5.7	5.6	5.6	5.5	5.3	5.1	5.0	5.1	5.1
77.5°	6.9	6.8	6.7	6.6	6.4	6.1	6.0	5.9	5.9	5.8	5.5
75°	7.7	7.7	7.5	7.0	6.6	6.6	6.7	6.7	6.4	6.0	5.6
72.5°	8.7	8.7	8.2	7.3	7.0	7.2	7.2	6.9	7.3	8.3	9.2
70°	10.1	9.9	9.7	8.9	8.0	8.4	9.7	11.0	12.2	14.3	17.2
67.5°	11.9	12.4	12.0	11.1	10.9	12.6	14.2	19.5	25.4	28.6	29.9
65°	15.0	15.2	16.0	16.2	15.2	19.8	25.9	33.0	39.5	40.8	39.7
62.5°	18.6	20.4	21.7	23.1	24.9	29.5	36.6	43.7	50.8	48.7	41.9
60°	25.6	26.7	30.6	34.5	35.8	38.3	46.0	50.0	52.2	50.9	39.6
57.5°	34.4	36.3	42.9	47.3	48.7	45.8	48.6	51.1	50.9	44.8	34.4
55°	46.6	49.1	57.1	63.0	62.7	51.6	51.0	53.4	49.6	43.6	33.9
52.5°	64.3	65.7	74.6	80.9	78.7	67.3	59.1	62.9	62.3	54.5	46.3
50°	83.7	91.1	94.4	103.4	102.8	93.5	78.2	85.9	99.4	96.9	85.3
47.5°	111.2	120.9	121.3	132.1	137.0	145.0	132.0	148.4	168.4	209.4	196.3
45°	144.2	160.2	161.5	171.5	196.8	227.3	239.6	238.6	340.1	376.6	403.3
42.5°	180.6	206.4	217.3	216.5	298.0	344.4	370.7	454.5	531.6	554.9	567.4
40°	226.8	257.8	281.4	334.0	418.4	482.5	548.7	638.2	680.3	684.4	684.6
37.5°	277.4	322.6	360.6	450.2	557.9	629.0	711.3	749.8	778.9	780.6	813.7
35°	331.7	392.4	462.7	562.6	681.3	762.0	809.6	844.4	860.3	896.9	1057.5
32.5°	394.0	467.2	559.0	670.2	783.5	865.8	894.2	924.2	962.9	1071.4	1542.9
30°	456.7	551.4	650.3	770.0	884.9	942.9	972.9	1010.6	1071.3	1494.5	2147.8
27.5°	510.0	630.2	738.2	863.0	980.3	1020.5	1055.2	1111.6	1370.0	1963.7	2871.4
25°	561.0	692.9	819.5	954.8	1051.9	1096.3	1139.9	1216.5	1720.8	2661.6	3281.2
22.5°	612.0	756.2	893.2	1045.6	1123.3	1169.3	1236.3	1522.4	2227.8	3358.9	3650.2
20°	664.3	819.5	966.5	1119.0	1191.8	1239.7	1331.8	1868.9	2847.4	3656.5	3926.2
17.5°	715.7	880.5	1035.3	1170.7	1246.2	1314.0	1459.8	2217.3	3405.2	3950.0	4137.9
15°	765.5	938.9	1097.9	1220.7	1300.5	1394.0	1760.5	2680.8	3767.0	4213.6	4392.0
12.5°	813.3	994.2	1154.5	1268.8	1354.7	1473.4	2075.3	3139.0	4009.2	4421.1	4591.9
10°	858.4	1046.1	1205.2	1314.6	1408.2	1551.0	2392.6	3525.8	4209.2	4561.4	4691.6
7.5°	901.1	1091.0	1250.6	1357.9	1460.4	1625.7	2700.4	3845.0	4366.9	4680.4	4760.5
5°	938.4	1127.6	1292.5	1404.6	1512.9	1691.9	2964.0	4100.4	4489.3	4779.4	4831.6
2.5°	970.4	1159.1	1330.4	1449.6	1563.6	1744.7	3091.4	4203.9	4504.8	4823.1	4905.5
0°	997.6	1185.7	1363.8	1491.4	1610.7	1790.4	3164.2	4257.6	4486.0	4835.3	4983.1
-2.5°	1019.8	1222.0	1411.5	1535.4	1655.8	1833.7	3158.9	4299.1	4533.2	4946.5	5281.1
-5°	1037.4	1252.5	1453.4	1576.3	1697.0	1870.7	3102.2	4287.1	4597.5	5044.9	5464.7
-7.5°	1050.0	1276.4	1488.8	1614.7	1737.5	1913.0	3061.6	4338.5	4784.9	5161.7	5539.1
-10°	1058.4	1292.1	1510.4	1650.5	1778.4	1954.8	2974.4	4317.0	4960.1	5278.8	5610.5
-12.5°	1068.0	1301.0	1524.3	1681.8	1814.1	1987.8	2820.5	4213.9	5122.4	5405.0	5680.4
-15°	1072.0	1304.0	1531.6	1708.1	1844.0	2011.3	2597.0	4023.0	5230.8	5473.7	5725.1
-17.5°	1070.2	1301.2	1532.3	1729.1	1868.1	2024.8	2301.8	3669.4	5060.5	5500.6	5766.6
-20°	1062.3	1292.6	1526.2	1744.6	1886.2	2041.7	2254.3	3262.9	4595.4	5480.5	5796.4



REPORT NUMBER: P731693 (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°	1048.5	1278.2	1512.0	1735.9	1906.4	2063.2	2256.6	2841.4	4046.7	5412.2	5798.7
-25°	1030.5	1258.0	1490.1	1726.6	1924.2	2077.6	2249.8	2473.3	3503.4	4821.8	5740.8
-27.5°	1008.7	1230.7	1468.6	1708.8	1938.4	2087.1	2251.4	2455.8	3024.2	4139.8	5520.0
-30°	981.4	1200.2	1438.4	1681.1	1918.5	2097.2	2251.9	2415.4	2625.2	3524.5	4714.2
-32.5°	950.5	1163.0	1398.7	1640.1	1881.4	2104.0	2238.8	2386.9	2567.3	2890.4	3906.6
-35°	919.3	1124.7	1350.2	1589.4	1834.3	2063.7	2227.7	2360.2	2508.2	2704.7	3168.6
-37.5°	889.0	1080.0	1293.4	1528.7	1769.1	1991.6	2207.1	2338.1	2473.6	2611.9	2804.9
-40°	853.2	1029.0	1235.4	1458.1	1684.1	1906.0	2119.9	2315.5	2440.1	2559.9	2685.0
-42.5°	812.5	983.5	1172.8	1376.5	1589.8	1805.3	2022.5	2228.2	2403.0	2510.2	2624.3
-45°	768.4	932.2	1105.6	1293.3	1487.1	1695.4	1904.7	2114.5	2301.3	2468.4	2570.4
-47.5°	718.8	875.6	1041.5	1203.7	1384.3	1576.0	1777.7	1975.0	2167.4	2345.1	2518.6
-50°	667.3	814.1	967.1	1118.6	1279.8	1455.0	1640.3	1827.2	2011.9	2192.7	2363.3
-52.5°	621.4	746.6	887.9	1031.9	1178.5	1334.6	1499.4	1668.5	1845.5	2021.2	2179.8
-55°	571.6	685.9	803.7	939.5	1078.7	1219.2	1356.9	1509.3	1667.3	1832.9	1981.0
-57.5°	531.5	623.0	726.4	841.6	972.1	1104.1	1225.4	1348.1	1488.6	1635.5	1764.2
-60°	496.0	568.2	652.3	752.2	859.4	978.6	1092.8	1206.1	1319.6	1431.7	1553.3
-62.5°	461.5	524.3	590.2	665.9	760.8	852.4	952.9	1057.6	1162.3	1262.7	1360.0
-65°	440.7	484.5	540.6	602.4	664.3	744.1	825.5	905.9	998.3	1089.2	1178.1
-67.5°	418.2	459.5	501.3	546.9	603.7	656.0	708.1	780.9	852.9	921.0	991.0
-70°	397.1	433.9	472.7	512.2	550.3	589.2	636.8	684.0	730.3	780.4	840.5
-72.5°	375.6	409.5	444.3	479.8	514.2	546.4	578.6	610.9	648.7	689.5	729.2
-75°	352.3	384.2	416.0	448.4	478.3	506.7	535.6	564.9	593.5	622.0	650.6
-77.5°	327.6	356.4	385.7	415.6	442.0	467.0	492.4	518.1	543.2	568.0	592.8
-80°	302.0	327.9	354.0	380.4	403.2	425.4	447.7	470.1	492.2	514.1	535.8
-82.5°	275.2	297.9	320.8	344.0	363.5	382.5	401.5	420.5	439.2	457.8	476.4
-85°	249.2	267.3	286.8	306.5	322.9	339.1	355.2	371.3	386.9	402.3	417.7
-87.5°	228.6	245.1	261.4	277.8	290.6	303.3	316.0	328.7	340.6	352.5	364.5
-90°	6.3	5.9	5.4	5.0	5.0	5.0	5.0	5.0	4.6	4.2	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°	332.5	338.8	345.1	351.4	357.7	363.2	368.7	374.1	379.6	383.0	386.3
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°	4.1	4.1	3.9	3.7	3.4	3.3	3.3	3.2	3.2	3.3	3.3
80°	5.0	4.7	4.3	3.9	3.5	3.4	3.4	3.4	3.4	3.4	3.4
77.5°	5.1	4.7	4.3	3.9	3.5	3.4	3.4	3.4	3.4	3.4	3.4
75°	5.2	5.0	5.3	5.3	5.0	5.0	5.0	4.9	4.7	4.5	4.2
72.5°	10.0	10.4	10.3	10.6	10.6	10.9	11.3	11.5	11.5	11.7	11.8
70°	18.9	19.5	20.0	19.8	18.6	17.6	17.2	16.7	16.1	16.5	17.6
67.5°	28.8	26.7	25.7	24.3	21.7	19.4	18.0	16.6	15.0	14.3	14.1
65°	35.6	28.1	24.5	21.7	19.6	17.0	14.7	12.6	10.8	9.7	9.2
62.5°	33.9	24.1	19.1	16.1	13.4	11.1	9.2	7.7	6.6	6.1	6.1
60°	28.9	18.9	13.3	10.7	8.1	5.3	4.9	4.7	4.3	4.0	4.3
57.5°	25.9	17.0	10.4	10.1	8.7	6.3	5.5	5.5	4.7	3.4	3.9
55°	28.8	24.3	16.9	17.4	17.0	14.3	12.2	14.6	14.0	11.0	12.0
52.5°	43.3	49.6	40.5	37.6	51.3	50.9	39.8	54.3	62.3	61.0	62.2
50°	101.8	115.0	128.9	118.1	144.9	160.9	157.4	176.4	195.8	195.3	201.4
47.5°	241.1	277.4	281.4	288.7	319.4	358.4	390.1	412.4	423.9	419.1	422.5
45°	431.4	439.6	458.5	500.3	552.4	615.2	663.1	690.9	784.7	851.2	890.1
42.5°	571.9	597.4	643.6	753.7	834.4	1019.9	1244.2	1331.2	1441.5	1497.4	1500.9
40°	712.7	777.8	968.5	1169.1	1604.6	1928.5	1947.9	2085.2	2148.4	2078.8	2068.4
37.5°	945.3	1186.9	1514.7	1978.3	2180.8	2268.9	2317.2	2334.8	2347.6	2335.9	2329.9
35°	1403.7	1823.9	2145.8	2296.9	2388.4	2391.3	2402.6	2401.1	2386.1	2378.2	2361.6
32.5°	2079.8	2480.6	2490.4	2478.7	2497.8	2486.9	2465.9	2456.2	2423.6	2404.0	2410.7
30°	2776.9	2779.2	2739.6	2647.7	2601.8	2587.7	2557.3	2532.3	2501.4	2506.0	2613.3
27.5°	3053.5	3019.6	2964.3	2885.0	2731.1	2700.9	2676.5	2665.9	2794.8	2912.6	3017.7
25°	3363.0	3275.1	3244.8	3175.7	3017.3	2842.0	2919.1	3040.4	3208.9	3384.4	3553.7
22.5°	3630.6	3567.2	3547.7	3522.0	3263.5	3188.0	3293.8	3493.2	3723.4	4028.3	4899.0
20°	3894.4	3825.9	3803.4	3674.5	3539.0	3557.7	3754.2	4101.9	4745.9	7059.3	9884.5
17.5°	4116.2	4045.2	3968.6	3818.2	3775.1	3963.6	4356.7	5578.2	8617.2	16210.9	23929.0
15°	4322.8	4229.6	4099.3	4000.6	4082.3	4433.4	5407.0	9568.9	19412.7	32158.8	48229.4
12.5°	4506.4	4363.8	4181.5	4130.2	4378.6	4969.9	8788.6	18776.7	33834.4	51992.7	89720.6
10°	4634.1	4449.4	4290.3	4378.7	4773.5	6360.9	12647.1	28150.6	50426.9	91040.6	138010.6
7.5°	4689.1	4521.8	4429.2	4619.1	5146.3	8169.0	19038.8	38932.4	71222.3	125833.8	200775.5
5°	4751.3	4635.8	4584.2	4857.1	5505.3	9642.0	23635.5	48005.8	93460.4	158511.8	255017.8
2.5°	4877.0	4767.1	4731.1	5065.9	5819.3	11015.4	27227.6	55059.7	108193.6	185779.7	303153.3
0°	5099.0	4870.6	4842.0	5169.5	5945.5	11640.7	29584.6	59313.7	115201.2	197447.0	326836.7
-2.5°	5275.2	5003.2	4948.8	5240.9	6001.1	11334.3	29345.6	59167.1	112342.3	193547.5	311796.6
-5°	5429.0	5156.1	5081.0	5352.4	6123.1	11322.9	27790.9	54289.2	100525.8	170073.5	262769.5
-7.5°	5565.9	5329.9	5218.8	5434.7	6139.2	10140.0	22478.2	44697.0	80352.8	132783.9	203380.7
-10°	5710.1	5528.9	5377.6	5522.0	6071.0	8067.9	15037.8	32219.4	57223.9	96293.3	144735.8
-12.5°	5875.0	5783.7	5561.3	5582.3	5978.7	6808.2	11114.4	22493.9	39728.5	60658.6	95772.7
-15°	6014.9	6010.8	5824.6	5765.4	5962.4	6494.3	7754.3	12491.6	24099.1	38992.5	56362.9
-17.5°	6044.1	6193.0	6121.7	5940.7	5952.3	6250.5	6769.9	8278.0	12105.2	21454.6	31789.8
-20°	6063.0	6381.0	6388.4	6241.5	6112.6	6079.3	6316.7	6756.7	7611.9	10771.3	14930.0



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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°	6091.7	6393.9	6608.9	6568.3	6315.4	6167.5	6114.4	6281.0	6570.4	6978.1	8327.4
-25°	6105.4	6387.4	6695.2	6779.6	6673.5	6402.9	6200.4	6087.4	6189.8	6319.2	6583.1
-27.5°	6047.1	6377.3	6675.7	6925.8	6956.3	6779.2	6481.7	6240.3	6146.5	6057.6	6166.3
-30°	5950.4	6319.2	6631.2	6938.9	7062.0	7005.4	6849.6	6653.6	6425.0	6247.1	6184.6
-32.5°	5158.1	6232.2	6551.8	6818.5	7021.5	7079.5	7081.2	6976.2	6878.4	6741.2	6580.6
-35°	4249.7	5441.1	6480.9	6615.2	6801.4	6993.5	7136.3	7141.2	7129.7	7064.7	6997.0
-37.5°	3303.5	4413.8	5413.8	6214.4	6495.9	6722.2	6966.6	7131.7	7235.5	7216.8	7204.3
-40°	2876.1	3226.0	4161.6	4977.6	5662.3	6306.4	6571.2	6868.1	7106.8	7189.8	7245.8
-42.5°	2744.1	2893.8	3046.1	3664.4	4369.7	4990.2	5573.6	6129.9	6626.7	6908.1	7104.0
-45°	2671.7	2755.0	2848.3	2986.0	3105.0	3618.8	4141.5	4649.3	5269.0	5839.4	6334.2
-47.5°	2604.7	2669.9	2742.1	2813.0	2879.0	2972.3	3053.1	3197.3	3661.5	4129.6	4599.2
-50°	2496.9	2604.5	2664.4	2717.3	2764.0	2807.3	2844.7	2909.8	2986.9	3054.1	3122.0
-52.5°	2316.6	2437.8	2552.8	2640.0	2676.6	2712.6	2749.4	2798.8	2844.4	2886.1	2918.1
-55°	2114.4	2237.1	2353.1	2441.5	2520.7	2593.7	2658.7	2702.5	2745.1	2786.1	2817.4
-57.5°	1892.1	2017.1	2130.6	2215.3	2294.6	2368.2	2439.8	2508.6	2571.6	2628.3	2676.7
-60°	1667.0	1772.5	1875.0	1964.6	2046.3	2120.0	2190.8	2258.6	2320.5	2376.2	2424.7
-62.5°	1455.6	1553.3	1634.4	1707.7	1778.1	1846.2	1917.7	1983.6	2043.6	2098.3	2148.5
-65°	1264.9	1349.2	1410.6	1467.9	1522.2	1580.6	1643.6	1701.7	1754.6	1803.8	1849.1
-67.5°	1068.9	1141.9	1195.8	1245.4	1291.7	1338.3	1388.6	1435.5	1478.8	1520.1	1558.9
-70°	898.7	949.6	987.2	1025.3	1066.4	1108.3	1151.7	1191.1	1226.7	1260.5	1291.7
-72.5°	767.8	799.1	825.5	858.0	887.3	918.6	950.8	980.6	1007.9	1034.4	1059.3
-75°	679.2	702.2	723.7	743.8	762.6	785.0	808.2	830.2	850.8	870.1	888.4
-77.5°	617.5	635.4	650.2	664.2	677.6	694.9	713.1	730.8	748.0	762.6	776.1
-80°	557.3	571.7	584.3	596.5	608.2	623.2	638.4	653.3	667.7	681.0	693.6
-82.5°	495.0	506.7	517.4	527.8	537.8	550.5	563.1	575.3	587.1	598.0	608.6
-85°	432.9	441.8	450.2	458.4	466.3	476.6	486.8	496.9	506.7	513.8	520.6
-87.5°	376.5	383.0	389.4	395.7	401.8	409.3	416.7	424.1	431.4	436.2	440.8
-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: P731693 (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°	389.7	393.0	392.2	391.3	392.2	393.0	389.7	386.3	383.0	379.6	374.1
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	4.5	4.7	4.9
72.5°	11.7	11.6	11.7	11.8	11.7	11.6	11.7	11.8	11.7	11.5	11.5
70°	18.7	19.8	20.1	20.2	20.1	19.8	18.7	17.6	16.5	16.1	16.7
67.5°	13.9	13.6	12.7	11.8	12.7	13.6	13.9	14.1	14.3	15.0	16.6
65°	8.9	8.6	8.4	8.4	8.4	8.6	8.9	9.2	9.7	10.8	12.6
62.5°	6.3	6.7	6.7	6.7	6.7	6.7	6.3	6.1	6.1	6.6	7.7
60°	4.6	5.0	5.0	5.0	5.0	5.0	4.6	4.3	4.0	4.3	4.7
57.5°	4.4	4.9	5.0	5.0	5.0	4.9	4.4	3.9	3.4	4.7	5.5
55°	12.8	13.1	12.7	11.8	12.7	13.1	12.8	12.0	11.0	14.0	14.6
52.5°	61.2	56.5	49.2	40.3	49.2	56.5	61.2	62.2	61.0	62.3	54.3
50°	213.1	218.8	213.7	198.2	213.7	218.8	213.1	201.4	195.3	195.8	176.4
47.5°	439.0	443.8	428.6	393.0	428.6	443.8	439.0	422.5	419.1	423.9	412.4
45°	919.1	912.0	832.9	668.4	832.9	912.0	919.1	890.1	851.2	784.7	690.9
42.5°	1585.0	1655.6	1697.2	1698.0	1697.2	1655.6	1585.0	1500.9	1497.4	1441.5	1331.2
40°	2051.5	1968.7	1878.3	1864.3	1878.3	1968.7	2051.5	2068.4	2078.8	2148.4	2085.2
37.5°	2315.8	2333.2	2323.2	2127.9	2323.2	2333.2	2315.8	2329.9	2335.9	2347.6	2334.8
35°	2399.9	2531.1	2666.2	2693.9	2666.2	2531.1	2399.9	2361.6	2378.2	2386.1	2401.1
32.5°	2440.6	2485.6	2497.8	2502.5	2497.8	2485.6	2440.6	2410.7	2404.0	2423.6	2456.2
30°	2662.8	2692.1	2687.8	2682.2	2687.8	2692.1	2662.8	2613.3	2506.0	2501.4	2532.3
27.5°	3067.3	3115.8	3137.6	3152.4	3137.6	3115.8	3067.3	3017.7	2912.6	2794.8	2665.9
25°	3646.2	3720.6	3771.6	3794.0	3771.6	3720.6	3646.2	3553.7	3384.4	3208.9	3040.4
22.5°	5904.5	6419.7	6929.6	7193.4	6929.6	6419.7	5904.5	4899.0	4028.3	3723.4	3493.2
20°	14740.1	16966.3	17983.0	18279.8	17983.0	16966.3	14740.1	9884.5	7059.3	4745.9	4101.9
17.5°	34326.5	42765.4	48409.8	43464.1	48409.8	42765.4	34326.5	23929.0	16210.9	8617.2	5578.2
15°	70258.4	91631.1	103590.7	96860.9	103590.7	91631.1	70258.4	48229.4	32158.8	19412.7	9568.9
12.5°	126585.6	159940.9	182343.5	174955.8	182343.5	159940.9	126585.6	89720.6	51992.7	33834.4	18776.7
10°	199243.0	266315.2	310976.0	322016.5	310976.0	266315.2	199243.0	138010.6	91040.6	50426.9	28150.6
7.5°	289139.6	372184.3	437735.4	447881.0	437735.4	372184.3	289139.6	200775.5	125833.8	71222.3	38932.4
5°	377085.1	475108.6	543313.2	561019.7	543313.2	475108.6	377085.1	255017.8	158511.8	93460.4	48005.8
2.5°	431670.5	538361.1	620517.2	656705.0	620517.2	538361.1	431670.5	303153.3	185779.7	108193.6	55059.7
0°	451153.5	562578.3	651717.7	703627.3	651717.7	562578.3	451153.5	326836.7	197447.0	115201.2	59313.7
-2.5°	436048.0	536953.6	612203.0	648288.9	612203.0	536953.6	436048.0	311796.6	193547.5	112342.3	59167.1
-5°	371389.7	471646.7	532871.1	562265.9	532871.1	471646.7	371389.7	262769.5	170073.5	100525.8	54289.2
-7.5°	290208.1	370451.5	423320.0	450062.6	423320.0	370451.5	290208.1	203380.7	132783.9	80352.8	44697.0
-10°	203058.5	266721.2	302358.8	324179.7	302358.8	266721.2	203058.5	144735.8	96293.3	57223.9	32219.4
-12.5°	132119.8	169175.3	189134.8	203115.3	189134.8	169175.3	132119.8	95772.7	60658.6	39728.5	22493.9
-15°	80204.6	98263.9	109100.3	115893.2	109100.3	98263.9	80204.6	56362.9	38992.5	24099.1	12491.6
-17.5°	44765.4	52522.2	58014.5	61053.7	58014.5	52522.2	44765.4	31789.8	21454.6	12105.2	8278.0
-20°	22212.7	27119.6	30342.7	31695.8	30342.7	27119.6	22212.7	14930.0	10771.3	7611.9	6756.7



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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°	10251.3	11562.1	12429.9	12843.2	12429.9	11562.1	10251.3	8327.4	6978.1	6570.4	6281.0
-25°	6839.7	7045.3	7196.5	7262.2	7196.5	7045.3	6839.7	6583.1	6319.2	6189.8	6087.4
-27.5°	6264.7	6373.7	6464.0	6499.7	6464.0	6373.7	6264.7	6166.3	6057.6	6146.5	6240.3
-30°	6136.6	6141.4	6167.0	6167.2	6167.0	6141.4	6136.6	6184.6	6247.1	6425.0	6653.6
-32.5°	6459.1	6388.3	6357.4	6390.5	6357.4	6388.3	6459.1	6580.6	6741.2	6878.4	6976.2
-35°	6951.9	6932.8	6934.3	6970.0	6934.3	6932.8	6951.9	6997.0	7064.7	7129.7	7141.2
-37.5°	7207.5	7222.5	7239.5	7243.7	7239.5	7222.5	7207.5	7204.3	7216.8	7235.5	7131.7
-40°	7278.4	7307.8	7330.0	7337.8	7330.0	7307.8	7278.4	7245.8	7189.8	7106.8	6868.1
-42.5°	7190.5	7249.1	7280.0	7287.4	7280.0	7249.1	7190.5	7104.0	6908.1	6626.7	6129.9
-45°	6693.4	6954.1	7101.5	7141.3	7101.5	6954.1	6693.4	6334.2	5839.4	5269.0	4649.3
-47.5°	5056.1	5465.2	5750.1	5881.7	5750.1	5465.2	5056.1	4599.2	4129.6	3661.5	3197.3
-50°	3193.2	3260.6	3311.0	3342.2	3311.0	3260.6	3193.2	3122.0	3054.1	2986.9	2909.8
-52.5°	2945.9	2970.7	2985.2	2991.2	2985.2	2970.7	2945.9	2918.1	2886.1	2844.4	2798.8
-55°	2844.1	2867.0	2877.1	2878.7	2877.1	2867.0	2844.1	2817.4	2786.1	2745.1	2702.5
-57.5°	2718.4	2753.3	2768.7	2771.2	2768.7	2753.3	2718.4	2676.7	2628.3	2571.6	2508.6
-60°	2465.7	2499.6	2516.2	2522.6	2516.2	2499.6	2465.7	2424.7	2376.2	2320.5	2258.6
-62.5°	2192.0	2228.8	2240.0	2238.8	2240.0	2228.8	2192.0	2148.5	2098.3	2043.6	1983.6
-65°	1888.7	1922.5	1932.1	1931.4	1932.1	1922.5	1888.7	1849.1	1803.8	1754.6	1701.7
-67.5°	1593.2	1623.0	1633.2	1635.8	1633.2	1623.0	1593.2	1558.9	1520.1	1478.8	1435.5
-70°	1319.1	1342.6	1348.5	1348.6	1348.5	1342.6	1319.1	1291.7	1260.5	1226.7	1191.1
-72.5°	1081.9	1102.2	1105.6	1105.1	1105.6	1102.2	1081.9	1059.3	1034.4	1007.9	980.6
-75°	905.7	921.7	922.3	920.4	922.3	921.7	905.7	888.4	870.1	850.8	830.2
-77.5°	788.8	800.7	803.2	804.5	803.2	800.7	788.8	776.1	762.6	748.0	730.8
-80°	705.7	717.1	716.8	715.5	716.8	717.1	705.7	693.6	681.0	667.7	653.3
-82.5°	618.8	628.6	628.7	628.1	628.7	628.6	618.8	608.6	598.0	587.1	575.3
-85°	527.2	533.4	533.1	532.4	533.1	533.4	527.2	520.6	513.8	506.7	496.9
-87.5°	445.4	449.9	450.0	450.1	450.0	449.9	445.4	440.8	436.2	431.4	424.1
-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°	368.7	363.2	357.7	351.4	345.1	338.8	332.5	323.3	314.1	304.8	295.6
87.5°	2.5	2.9	3.2	3.3	3.3	3.3	3.4	3.8	4.2	4.6	5.0
85°	2.6	3.0	3.4	3.4	3.4	3.4	3.4	3.8	4.2	4.6	5.0
82.5°	3.3	3.3	3.4	3.7	3.9	4.1	4.1	4.3	4.5	4.7	5.0
80°	3.4	3.4	3.5	3.9	4.3	4.7	5.0	5.1	5.1	5.0	5.1
77.5°	3.4	3.4	3.5	3.9	4.3	4.7	5.1	5.5	5.8	5.9	5.9
75°	5.0	5.0	5.0	5.3	5.3	5.0	5.2	5.6	6.0	6.4	6.7
72.5°	11.3	10.9	10.6	10.6	10.3	10.4	10.0	9.2	8.3	7.3	6.9
70°	17.2	17.6	18.6	19.8	20.0	19.5	18.9	17.2	14.3	12.2	11.0
67.5°	18.0	19.4	21.7	24.3	25.7	26.7	28.8	29.9	28.6	25.4	19.5
65°	14.7	17.0	19.6	21.7	24.5	28.1	35.6	39.7	40.8	39.5	33.0
62.5°	9.2	11.1	13.4	16.1	19.1	24.1	33.9	41.9	48.7	50.8	43.7
60°	4.9	5.3	8.1	10.7	13.3	18.9	28.9	39.6	50.9	52.2	50.0
57.5°	5.5	6.3	8.7	10.1	10.4	17.0	25.9	34.4	44.8	50.9	51.1
55°	12.2	14.3	17.0	17.4	16.9	24.3	28.8	33.9	43.6	49.6	53.4
52.5°	39.8	50.9	51.3	37.6	40.5	49.6	43.3	46.3	54.5	62.3	62.9
50°	157.4	160.9	144.9	118.1	128.9	115.0	101.8	85.3	96.9	99.4	85.9
47.5°	390.1	358.4	319.4	288.7	281.4	277.4	241.1	196.3	209.4	168.4	148.4
45°	663.1	615.2	552.4	500.3	458.5	439.6	431.4	403.3	376.6	340.1	238.6
42.5°	1244.2	1019.9	834.4	753.7	643.6	597.4	571.9	567.4	554.9	531.6	454.5
40°	1947.9	1928.5	1604.6	1169.1	968.5	777.8	712.7	684.6	684.4	680.3	638.2
37.5°	2317.2	2268.9	2180.8	1978.3	1514.7	1186.9	945.3	813.7	780.6	778.9	749.8
35°	2402.6	2391.3	2388.4	2296.9	2145.8	1823.9	1403.7	1057.5	896.9	860.3	844.4
32.5°	2465.9	2486.9	2497.8	2478.7	2490.4	2480.6	2079.8	1542.9	1071.4	962.9	924.2
30°	2557.3	2587.7	2601.8	2647.7	2739.6	2779.2	2776.9	2147.8	1494.5	1071.3	1010.6
27.5°	2676.5	2700.9	2731.1	2885.0	2964.3	3019.6	3053.5	2871.4	1963.7	1370.0	1111.6
25°	2919.1	2842.0	3017.3	3175.7	3244.8	3275.1	3363.0	3281.2	2661.6	1720.8	1216.5
22.5°	3293.8	3188.0	3263.5	3522.0	3547.7	3567.2	3630.6	3650.2	3358.9	2227.8	1522.4
20°	3754.2	3557.7	3539.0	3674.5	3803.4	3825.9	3894.4	3926.2	3656.5	2847.4	1868.9
17.5°	4356.7	3963.6	3775.1	3818.2	3968.6	4045.2	4116.2	4137.9	3950.0	3405.2	2217.3
15°	5407.0	4433.4	4082.3	4000.6	4099.3	4229.6	4322.8	4392.0	4213.6	3767.0	2680.8
12.5°	8788.6	4969.9	4378.6	4130.2	4181.5	4363.8	4506.4	4591.9	4421.1	4009.2	3139.0
10°	12647.1	6360.9	4773.5	4378.7	4290.3	4449.4	4634.1	4691.6	4561.4	4209.2	3525.8
7.5°	19038.8	8169.0	5146.3	4619.1	4429.2	4521.8	4689.1	4760.5	4680.4	4366.9	3845.0
5°	23635.5	9642.0	5505.3	4857.1	4584.2	4635.8	4751.3	4831.6	4779.4	4489.3	4100.4
2.5°	27227.6	11015.4	5819.3	5065.9	4731.1	4767.1	4877.0	4905.5	4823.1	4504.8	4203.9
0°	29584.6	11640.7	5945.5	5169.5	4842.0	4870.6	5099.0	4983.1	4835.3	4486.0	4257.6
-2.5°	29345.6	11334.3	6001.1	5240.9	4948.8	5003.2	5275.2	5281.1	4946.5	4533.2	4299.1
-5°	27790.9	11322.9	6123.1	5352.4	5081.0	5156.1	5429.0	5464.7	5044.9	4597.5	4287.1
-7.5°	22478.2	10140.0	6139.2	5434.7	5218.8	5329.9	5565.9	5539.1	5161.7	4784.9	4338.5
-10°	15037.8	8067.9	6071.0	5522.0	5377.6	5528.9	5710.1	5610.5	5278.8	4960.1	4317.0
-12.5°	11114.4	6808.2	5978.7	5582.3	5561.3	5783.7	5875.0	5680.4	5405.0	5122.4	4213.9
-15°	7754.3	6494.3	5962.4	5765.4	5824.6	6010.8	6014.9	5725.1	5473.7	5230.8	4023.0
-17.5°	6769.9	6250.5	5952.3	5940.7	6121.7	6193.0	6044.1	5766.6	5500.6	5060.5	3669.4
-20°	6316.7	6079.3	6112.6	6241.5	6388.4	6381.0	6063.0	5796.4	5480.5	4595.4	3262.9



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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°	6114.4	6167.5	6315.4	6568.3	6608.9	6393.9	6091.7	5798.7	5412.2	4046.7	2841.4
-25°	6200.4	6402.9	6673.5	6779.6	6695.2	6387.4	6105.4	5740.8	4821.8	3503.4	2473.3
-27.5°	6481.7	6779.2	6956.3	6925.8	6675.7	6377.3	6047.1	5520.0	4139.8	3024.2	2455.8
-30°	6849.6	7005.4	7062.0	6938.9	6631.2	6319.2	5950.4	4714.2	3524.5	2625.2	2415.4
-32.5°	7081.2	7079.5	7021.5	6818.5	6551.8	6232.2	5158.1	3906.6	2890.4	2567.3	2386.9
-35°	7136.3	6993.5	6801.4	6615.2	6480.9	5441.1	4249.7	3168.6	2704.7	2508.2	2360.2
-37.5°	6966.6	6722.2	6495.9	6214.4	5413.8	4413.8	3303.5	2804.9	2611.9	2473.6	2338.1
-40°	6571.2	6306.4	5662.3	4977.6	4161.6	3226.0	2876.1	2685.0	2559.9	2440.1	2315.5
-42.5°	5573.6	4990.2	4369.7	3664.4	3046.1	2893.8	2744.1	2624.3	2510.2	2403.0	2228.2
-45°	4141.5	3618.8	3105.0	2986.0	2848.3	2755.0	2671.7	2570.4	2468.4	2301.3	2114.5
-47.5°	3053.1	2972.3	2879.0	2813.0	2742.1	2669.9	2604.7	2518.6	2345.1	2167.4	1975.0
-50°	2844.7	2807.3	2764.0	2717.3	2664.4	2604.5	2496.9	2363.3	2192.7	2011.9	1827.2
-52.5°	2749.4	2712.6	2676.6	2640.0	2552.8	2437.8	2316.6	2179.8	2021.2	1845.5	1668.5
-55°	2658.7	2593.7	2520.7	2441.5	2353.1	2237.1	2114.4	1981.0	1832.9	1667.3	1509.3
-57.5°	2439.8	2368.2	2294.6	2215.3	2130.6	2017.1	1892.1	1764.2	1635.5	1488.6	1348.1
-60°	2190.8	2120.0	2046.3	1964.6	1875.0	1772.5	1667.0	1553.3	1431.7	1319.6	1206.1
-62.5°	1917.7	1846.2	1778.1	1707.7	1634.4	1553.3	1455.6	1360.0	1262.7	1162.3	1057.6
-65°	1643.6	1580.6	1522.2	1467.9	1410.6	1349.2	1264.9	1178.1	1089.2	998.3	905.9
-67.5°	1388.6	1338.3	1291.7	1245.4	1195.8	1141.9	1068.9	991.0	921.0	852.9	780.9
-70°	1151.7	1108.3	1066.4	1025.3	987.2	949.6	898.7	840.5	780.4	730.3	684.0
-72.5°	950.8	918.6	887.3	858.0	825.5	799.1	767.8	729.2	689.5	648.7	610.9
-75°	808.2	785.0	762.6	743.8	723.7	702.2	679.2	650.6	622.0	593.5	564.9
-77.5°	713.1	694.9	677.6	664.2	650.2	635.4	617.5	592.8	568.0	543.2	518.1
-80°	638.4	623.2	608.2	596.5	584.3	571.7	557.3	535.8	514.1	492.2	470.1
-82.5°	563.1	550.5	537.8	527.8	517.4	506.7	495.0	476.4	457.8	439.2	420.5
-85°	486.8	476.6	466.3	458.4	450.2	441.8	432.9	417.7	402.3	386.9	371.3
-87.5°	416.7	409.3	401.8	395.7	389.4	383.0	376.5	364.5	352.5	340.6	328.7
-90°	1.7	1.7	1.7	2.1	2.6	3.0	3.4	3.8	4.2	4.6	5.0



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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°	284.7	273.8	262.8	251.9	237.2	222.5	207.8	193.1	177.6	162.1	146.5
87.5°	5.0	5.0	5.0	5.0	5.4	5.9	6.3	6.7	6.7	6.7	6.7
85°	5.0	5.0	5.0	5.0	5.4	5.9	6.3	6.7	6.7	6.7	6.7
82.5°	5.0	5.0	5.0	5.0	5.5	5.9	6.3	6.7	6.8	6.7	6.7
80°	5.3	5.5	5.6	5.6	5.7	5.9	6.3	6.8	7.2	7.3	7.2
77.5°	6.0	6.1	6.4	6.6	6.7	6.8	6.9	7.1	7.6	8.0	8.0
75°	6.7	6.6	6.6	7.0	7.5	7.7	7.7	8.0	8.7	8.8	8.9
72.5°	7.2	7.2	7.0	7.3	8.2	8.7	8.7	9.1	10.1	10.4	9.9
70°	9.7	8.4	8.0	8.9	9.7	9.9	10.1	11.0	11.6	12.1	11.7
67.5°	14.2	12.6	10.9	11.1	12.0	12.4	11.9	13.3	14.3	13.9	13.6
65°	25.9	19.8	15.2	16.2	16.0	15.2	15.0	16.3	17.3	17.0	15.5
62.5°	36.6	29.5	24.9	23.1	21.7	20.4	18.6	20.7	20.7	20.3	18.4
60°	46.0	38.3	35.8	34.5	30.6	26.7	25.6	25.4	25.6	23.8	21.9
57.5°	48.6	45.8	48.7	47.3	42.9	36.3	34.4	33.5	30.7	28.6	25.7
55°	51.0	51.6	62.7	63.0	57.1	49.1	46.6	44.0	37.4	33.8	30.3
52.5°	59.1	67.3	78.7	80.9	74.6	65.7	64.3	55.5	48.6	39.3	36.6
50°	78.2	93.5	102.8	103.4	94.4	91.1	83.7	73.7	60.7	46.7	43.6
47.5°	132.0	145.0	137.0	132.1	121.3	120.9	111.2	93.9	73.4	58.5	51.1
45°	239.6	227.3	196.8	171.5	161.5	160.2	144.2	115.5	93.2	73.1	59.2
42.5°	370.7	344.4	298.0	216.5	217.3	206.4	180.6	147.6	113.9	88.3	70.6
40°	548.7	482.5	418.4	334.0	281.4	257.8	226.8	183.7	135.9	106.1	84.3
37.5°	711.3	629.0	557.9	450.2	360.6	322.6	277.4	222.3	164.4	128.3	98.3
35°	809.6	762.0	681.3	562.6	462.7	392.4	331.7	265.6	200.0	150.9	112.6
32.5°	894.2	865.8	783.5	670.2	559.0	467.2	394.0	310.7	235.0	174.0	127.1
30°	972.9	942.9	884.9	770.0	650.3	551.4	456.7	354.0	269.2	197.4	142.9
27.5°	1055.2	1020.5	980.3	863.0	738.2	630.2	510.0	395.2	302.4	223.0	162.1
25°	1139.9	1096.3	1051.9	954.8	819.5	692.9	561.0	434.7	336.7	251.0	181.2
22.5°	1236.3	1169.3	1123.3	1045.6	893.2	756.2	612.0	478.1	370.2	277.9	200.0
20°	1331.8	1239.7	1191.8	1119.0	966.5	819.5	664.3	519.2	401.8	303.8	218.5
17.5°	1459.8	1314.0	1246.2	1170.7	1035.3	880.5	715.7	557.7	431.4	328.3	236.4
15°	1760.5	1394.0	1300.5	1220.7	1097.9	938.9	765.5	593.5	458.9	351.6	253.0
12.5°	2075.3	1473.4	1354.7	1268.8	1154.5	994.2	813.3	626.6	484.4	372.7	267.4
10°	2392.6	1551.0	1408.2	1314.6	1205.2	1046.1	858.4	660.7	512.2	392.0	280.7
7.5°	2700.4	1625.7	1460.4	1357.9	1250.6	1091.0	901.1	700.4	539.3	409.9	292.6
5°	2964.0	1691.9	1512.9	1404.6	1292.5	1127.6	938.4	737.6	564.9	426.3	303.3
2.5°	3091.4	1744.7	1563.6	1449.6	1330.4	1159.1	970.4	771.9	588.5	440.8	312.7
0°	3164.2	1790.4	1610.7	1491.4	1363.8	1185.7	997.6	802.8	609.7	453.5	320.8
-2.5°	3158.9	1833.7	1655.8	1535.4	1411.5	1222.0	1019.8	820.0	626.0	468.3	331.8
-5°	3102.2	1870.7	1697.0	1576.3	1453.4	1252.5	1037.4	833.3	639.5	480.9	341.3
-7.5°	3061.6	1913.0	1737.5	1614.7	1488.8	1276.4	1050.0	842.7	650.1	491.0	349.3
-10°	2974.4	1954.8	1778.4	1650.5	1510.4	1292.1	1058.4	848.2	657.8	498.6	355.6
-12.5°	2820.5	1987.8	1814.1	1681.8	1524.3	1301.0	1068.0	853.9	663.1	503.6	360.3
-15°	2597.0	2011.3	1844.0	1708.1	1531.6	1304.0	1072.0	857.2	667.8	506.4	363.1
-17.5°	2301.8	2024.8	1868.1	1729.1	1532.3	1301.2	1070.2	855.8	669.2	507.4	365.2
-20°	2254.3	2041.7	1886.2	1744.6	1526.2	1292.6	1062.3	849.7	667.1	505.6	366.2



REPORT NUMBER: P731693 (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°	2256.6	2063.2	1906.4	1735.9	1512.0	1278.2	1048.5	838.8	661.6	501.1	365.3
-25°	2249.8	2077.6	1924.2	1726.6	1490.1	1258.0	1030.5	823.0	652.6	493.8	362.2
-27.5°	2251.4	2087.1	1938.4	1708.8	1468.6	1230.7	1008.7	809.6	640.8	483.8	357.1
-30°	2251.9	2097.2	1918.5	1681.1	1438.4	1200.2	981.4	792.4	626.8	474.4	349.9
-32.5°	2238.8	2104.0	1881.4	1640.1	1398.7	1163.0	950.5	771.2	609.6	464.4	345.9
-35°	2227.7	2063.7	1834.3	1589.4	1350.2	1124.7	919.3	745.8	589.2	451.8	342.2
-37.5°	2207.1	1991.6	1769.1	1528.7	1293.4	1080.0	889.0	719.7	565.6	436.5	336.9
-40°	2119.9	1906.0	1684.1	1458.1	1235.4	1029.0	853.2	689.8	543.8	418.7	330.2
-42.5°	2022.5	1805.3	1589.8	1376.5	1172.8	983.5	812.5	655.1	520.2	405.8	322.1
-45°	1904.7	1695.4	1487.1	1293.3	1105.6	932.2	768.4	617.0	493.3	394.7	315.0
-47.5°	1777.7	1576.0	1384.3	1203.7	1041.5	875.6	718.8	583.2	463.7	381.9	310.5
-50°	1640.3	1455.0	1279.8	1118.6	967.1	814.1	667.3	545.9	445.6	366.2	304.9
-52.5°	1499.4	1334.6	1178.5	1031.9	887.9	746.6	621.4	507.1	425.2	355.0	298.4
-55°	1356.9	1219.2	1078.7	939.5	803.7	685.9	571.6	481.0	402.7	345.3	291.2
-57.5°	1225.4	1104.1	972.1	841.6	726.4	623.0	531.5	452.5	387.7	334.5	284.9
-60°	1092.8	978.6	859.4	752.2	652.3	568.2	496.0	426.7	374.1	323.3	277.3
-62.5°	952.9	852.4	760.8	665.9	590.2	524.3	461.5	410.0	359.5	313.1	268.7
-65°	825.5	744.1	664.3	602.4	540.6	484.5	440.7	392.1	346.0	302.0	259.5
-67.5°	708.1	656.0	603.7	546.9	501.3	459.5	418.2	375.1	332.0	290.1	249.4
-70°	636.8	589.2	550.3	512.2	472.7	433.9	397.1	358.0	317.2	277.1	238.7
-72.5°	578.6	546.4	514.2	479.8	444.3	409.5	375.6	339.6	300.8	263.3	227.3
-75°	535.6	506.7	478.3	448.4	416.0	384.2	352.3	319.4	283.5	248.8	215.3
-77.5°	492.4	467.0	442.0	415.6	385.7	356.4	327.6	298.3	265.3	233.4	202.6
-80°	447.7	425.4	403.2	380.4	354.0	327.9	302.0	275.9	246.1	217.3	189.5
-82.5°	401.5	382.5	363.5	344.0	320.8	297.9	275.2	252.6	226.3	200.7	177.2
-85°	355.2	339.1	322.9	306.5	286.8	267.3	249.2	230.8	209.1	188.0	167.3
-87.5°	316.0	303.3	290.6	277.8	261.4	245.1	228.6	212.1	193.5	175.1	157.0
-90°	5.0	5.0	5.0	5.0	5.4	5.9	6.3	6.7	6.7	6.7	6.7



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	131.0	109.2	87.3	65.5	43.7	26.9	10.1
87.5°	6.7	6.9	7.0	7.0	7.0	8.7	10.1
85°	6.7	7.1	7.3	7.4	7.3	9.0	10.1
82.5°	6.7	7.3	7.6	7.7	7.6	9.3	10.1
80°	6.9	7.5	7.9	8.0	8.0	9.6	10.1
77.5°	7.8	8.0	8.2	8.4	8.3	9.9	10.1
75°	8.9	9.2	8.7	8.7	8.7	10.2	10.1
72.5°	9.9	10.4	9.9	9.1	9.1	10.6	10.1
70°	11.2	11.7	11.2	9.6	9.5	10.9	10.1
67.5°	13.4	13.0	12.5	10.7	9.9	11.2	10.1
65°	15.7	14.9	13.7	11.8	10.4	11.5	10.1
62.5°	18.2	17.3	15.1	13.0	10.9	11.9	10.1
60°	20.8	19.9	16.4	14.1	11.4	12.2	10.1
57.5°	24.9	22.5	18.7	15.2	12.6	12.6	10.1
55°	29.4	25.3	21.1	16.4	13.7	12.9	10.1
52.5°	34.2	28.4	23.6	17.6	15.0	13.3	10.1
50°	39.2	32.8	26.1	18.7	16.2	13.6	10.1
47.5°	44.8	37.4	28.6	20.1	17.5	14.0	10.1
45°	51.8	42.1	31.2	22.0	18.8	14.4	10.1
42.5°	59.2	46.9	33.7	23.9	20.2	14.7	10.1
40°	66.8	51.9	37.0	26.5	21.6	15.1	10.1
37.5°	74.8	56.9	40.9	29.5	23.0	15.5	10.1
35°	82.9	62.9	44.7	32.5	24.5	15.8	10.1
32.5°	92.4	69.4	48.6	35.6	25.9	16.2	10.1
30°	104.1	76.0	52.4	38.7	27.4	16.5	10.1
27.5°	115.9	82.5	57.8	41.9	28.9	16.9	10.1
25°	127.5	89.0	63.4	45.0	30.4	17.3	10.1
22.5°	138.9	96.0	68.9	48.2	31.9	17.6	10.1
20°	150.1	103.9	74.4	51.3	33.4	17.9	10.1
17.5°	161.4	111.6	79.8	54.4	34.8	18.3	10.1
15°	172.3	119.0	85.0	57.5	36.2	18.6	10.1
12.5°	182.5	126.1	90.1	60.5	37.6	18.9	10.1
10°	192.1	132.9	95.0	63.4	39.0	19.2	10.1
7.5°	201.0	139.3	99.7	66.2	40.3	19.5	10.1
5°	209.2	145.3	104.3	68.9	41.5	19.7	10.1
2.5°	216.7	151.0	108.5	71.5	42.6	20.0	10.1
0°	223.4	156.2	112.5	73.9	43.7	20.2	10.1
-2.5°	231.3	162.7	117.5	77.8	46.1	21.2	10.1
-5°	238.4	168.7	122.3	81.5	48.4	22.1	10.1
-7.5°	244.7	174.3	126.7	85.0	50.5	23.1	10.1
-10°	250.1	179.4	130.8	88.3	52.6	24.0	10.1
-12.5°	254.7	184.1	134.6	91.4	54.5	24.8	10.1
-15°	258.4	188.2	138.0	94.2	56.3	25.7	10.1
-17.5°	261.1	191.8	141.2	96.8	57.9	26.5	10.1
-20°	263.5	194.8	144.0	99.1	59.4	27.2	10.1



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 CATALOG NUMBER: EPH-LS-08-0680N-57-70-1S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	265.7	197.4	146.4	101.2	60.8	27.9	10.1
-25°	266.9	199.8	148.6	103.0	61.9	28.6	10.1
-27.5°	266.8	201.8	150.4	104.5	63.0	29.2	10.1
-30°	265.7	203.2	151.8	105.7	63.8	29.8	10.1
-32.5°	263.3	203.9	153.0	106.7	64.4	30.3	10.1
-35°	262.5	204.0	153.8	107.3	64.9	30.8	10.1
-37.5°	262.0	203.8	154.2	107.6	65.2	31.2	10.1
-40°	260.6	203.8	154.1	107.7	65.3	31.5	10.1
-42.5°	258.4	203.2	153.6	107.4	65.2	31.8	10.1
-45°	255.4	202.0	152.8	106.8	64.9	32.0	10.1
-47.5°	251.6	200.2	151.6	105.9	64.5	32.2	10.1
-50°	248.4	197.8	149.9	104.8	63.8	32.3	10.1
-52.5°	244.7	194.9	147.8	103.5	63.0	32.4	10.1
-55°	240.3	191.5	145.3	101.8	62.0	32.4	10.1
-57.5°	235.2	187.6	142.3	99.9	60.8	32.3	10.1
-60°	229.4	183.2	139.0	97.7	59.4	32.2	10.1
-62.5°	223.1	178.2	135.4	95.3	58.8	32.1	10.1
-65°	216.1	172.7	131.5	92.5	58.1	31.8	10.1
-67.5°	208.4	166.8	127.2	89.6	57.1	31.6	10.1
-70°	200.2	160.5	122.5	86.3	56.1	31.2	10.1
-72.5°	191.5	153.7	117.5	84.1	54.9	30.8	10.1
-75°	182.2	146.5	112.1	82.0	53.6	30.4	10.1
-77.5°	172.4	138.9	108.3	79.6	52.2	29.9	10.1
-80°	162.1	132.7	104.5	77.1	50.7	29.4	10.1
-82.5°	154.5	127.2	100.5	74.4	49.1	28.8	10.1
-85°	147.0	121.5	96.3	71.6	47.4	28.2	10.1
-87.5°	139.1	115.4	91.9	68.6	45.6	27.6	10.1
-90°	6.7	6.7	6.7	6.7	6.7	8.4	10.1

(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

