

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: P731565 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-57-70-5S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731565 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0530N-57-70-5S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

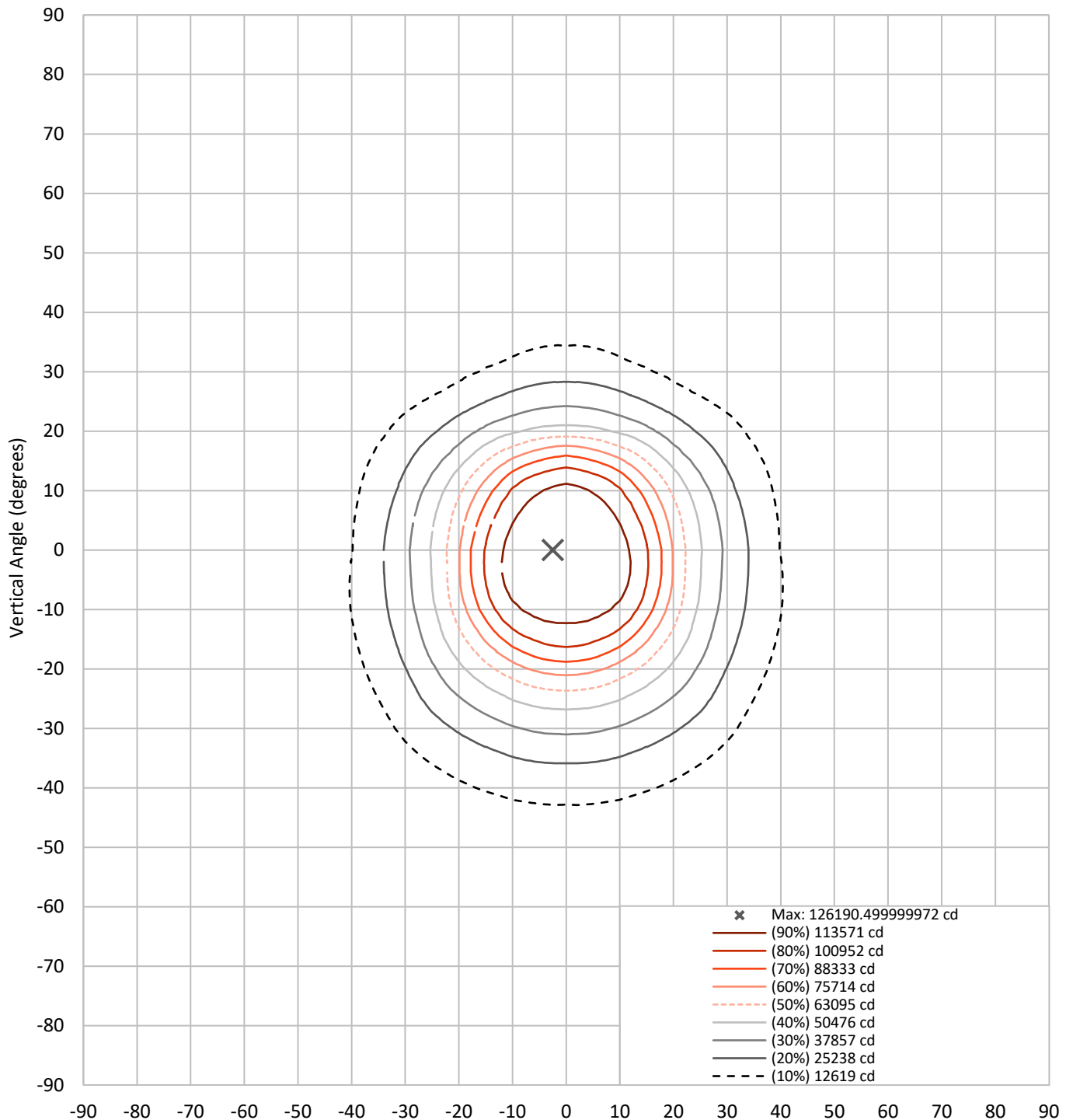
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	82167.1 lumens	Max Intensity:	126190.5 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	146.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	45117.5 lumens	Field Lumens:	75501.5 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

Input Watts (W): 559.9
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





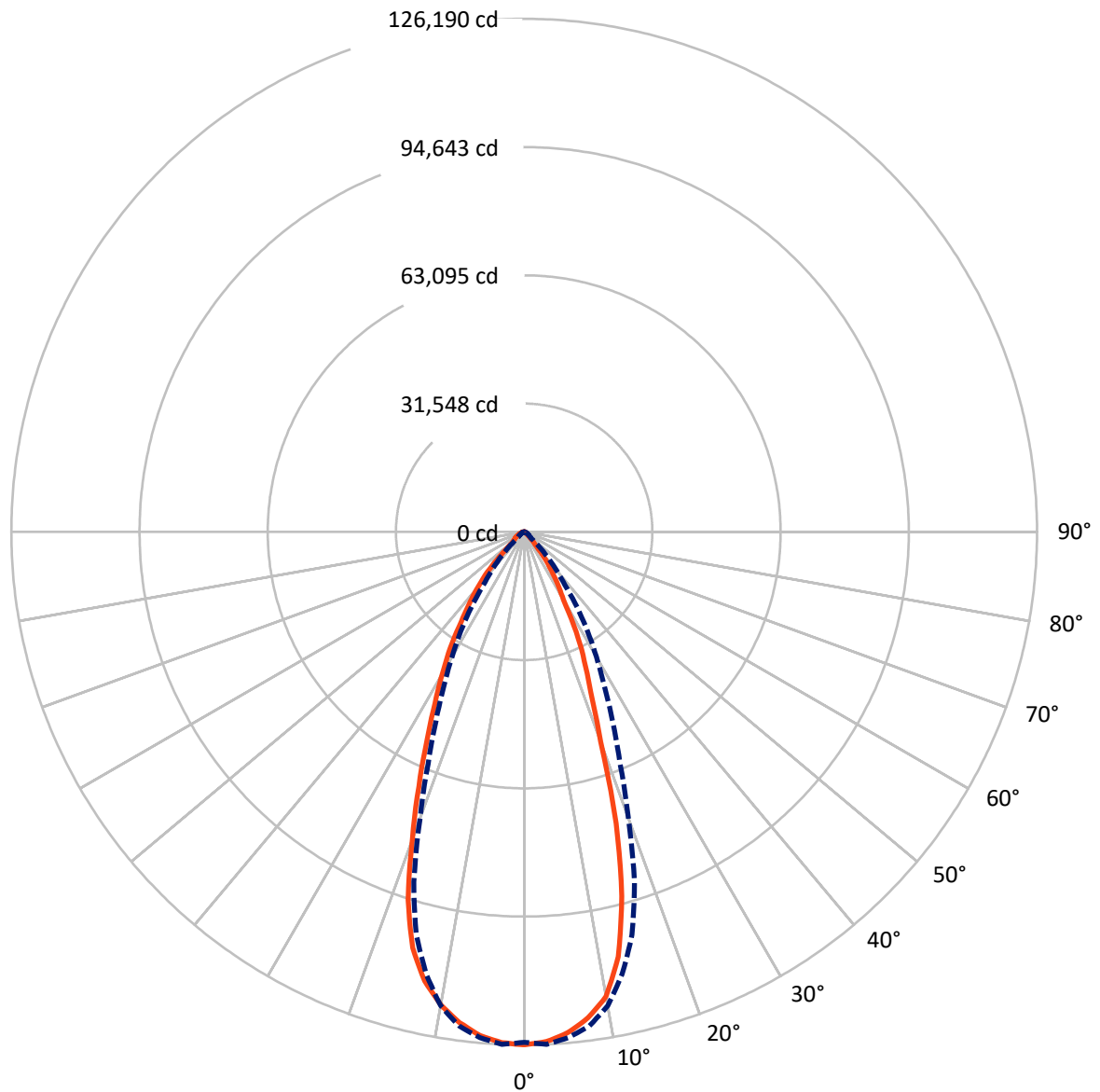
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Lumen Table

90	0.3	1.2	2.1	2.8	3.2	2.8	2.1	1.2	0.3										
80	0.3	1.2	2.1	2.8	3.2	2.8	2.1	1.2	0.3										
70	0.4	0.2	0.2	0.5	0.6	0.6	0.7	0.8	0.8	0.7	0.6	0.6	0.5	0.2	0.2	0.4			
60		0.4	0.7	1.2	1.2	0.9	1.1	1.2	1.2	1.1	0.9	1.2	1.2	0.7	0.4				
50	0.9	1.1	2.4	4.9	8.8	18.1	39.9	53.8	53.8	39.9	18.1	8.8	4.9	2.4	1.1	0.9			
40		2.5	8.1	16.7	42.2	125.4	232.3	342.3	342.3	232.3	125.4	42.2	16.7	8.1	2.5				
30	2.0	4.3	14.2	36.2	174.0	411.2	755.9	1037.8	1037.8	755.9	411.2	174.0	36.2	14.2	4.3	2.0			
20		5.9	19.0	81.8	379.9	939.2	1827.3	2611.6	2611.6	1827.3	939.2	379.9	81.8	19.0	5.9				
10	3.0	7.2	22.3	124.1	534.9	1363.8	2736.0	3629.5	3629.5	2736.0	1363.8	534.9	124.1	22.3	7.2	3.0			
0		8.1	24.9	132.3	576.3	1430.2	2902.6	3686.2	3686.2	2902.6	1430.2	576.3	132.3	24.9	8.1				
-10	3.5	8.3	26.2	109.1	490.7	1195.2	2251.6	3040.1	3040.1	2251.6	1195.2	490.7	109.1	26.2	8.3	3.5			
-20		7.9	26.2	67.7	318.2	791.4	1316.0	1705.8	1705.8	1316.0	791.4	318.2	67.7	26.2	7.9				
-30	3.6	7.1	22.9	48.8	129.5	385.0	647.8	822.9	822.9	647.8	385.0	129.5	48.8	22.9	7.1	3.6			
-40		6.0	17.0	36.9	62.5	102.1	191.1	267.9	267.9	191.1	102.1	62.5	36.9	17.0	6.0				
-50	3.2	4.9	11.2	23.1	40.9	57.3	70.5	80.6	80.6	70.5	57.3	40.9	23.1	11.2	4.9	3.2			
-60		3.9	7.5	13.0	21.2	29.0	36.9	42.5	42.5	36.9	29.0	21.2	13.0	7.5	3.9				
-70	2.4	14.4	31.8	49.9	61.2	49.9	31.8	14.4	2.4						2.4				
-80		14.4	31.8	49.9	61.2	49.9	31.8	14.4	2.4										
-90	2.4	14.4	31.8	49.9	61.2	49.9	31.8	14.4	2.4										

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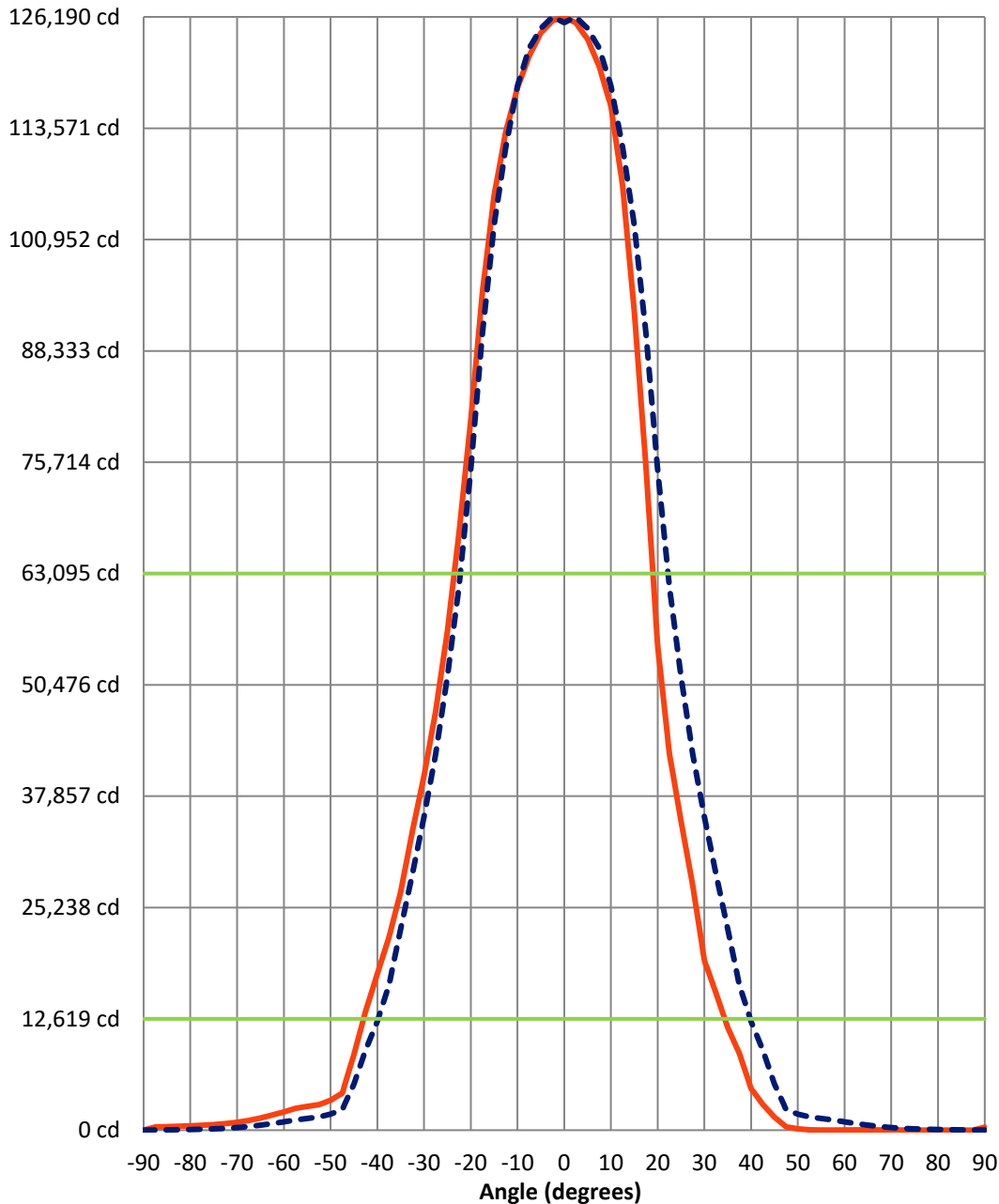
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 44.5°
 V Angle: 42.5°
 Lumens: 45117.5
 Efficiency: 54.9%

Field:
 H Angle: 79.6°
 V Angle: 77.3°
 Lumens: 75501.5
 Efficiency: 91.9%

Spill:
 Lumens: 6665.6
 Efficiency: 8.1%

— Vertical Distribution through -2.5-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°	10.9	21.3	31.7	52.5	73.4	92.7	112.1	128.0	143.8	155.2	166.6
87.5°	10.9	10.1	9.2	9.2	9.2	9.3	9.4	9.0	8.6	8.5	8.3
85°	10.9	10.3	9.4	9.6	9.6	9.8	9.9	9.6	9.3	9.1	8.8
82.5°	10.9	10.6	9.7	9.9	9.9	10.2	10.4	10.2	10.0	9.7	9.2
80°	10.9	10.8	10.0	10.2	10.3	10.6	11.0	10.8	10.7	10.3	9.7
77.5°	10.9	11.0	10.3	10.5	10.7	11.1	11.5	11.5	11.4	10.9	10.2
75°	10.9	11.2	10.6	10.9	11.1	11.8	12.1	12.1	12.1	11.5	10.7
72.5°	10.9	11.5	10.9	11.2	11.8	12.5	12.7	12.7	12.6	11.9	11.2
70°	10.9	11.7	11.2	11.6	12.5	13.2	13.3	13.5	13.1	12.4	12.2
67.5°	10.9	11.9	11.6	12.2	13.2	13.9	14.2	14.3	13.8	13.6	13.3
65°	10.9	12.2	11.9	12.8	13.9	14.7	15.1	15.1	15.1	14.8	14.7
62.5°	10.9	12.4	12.3	13.4	14.7	15.5	16.0	16.4	16.6	16.3	17.2
60°	10.9	12.7	12.7	13.9	15.4	16.4	16.9	17.9	18.1	19.7	19.9
57.5°	10.9	12.9	13.3	14.5	16.4	17.2	18.8	19.6	22.3	23.9	25.4
55°	10.9	13.2	14.0	15.1	17.4	18.1	21.0	21.7	27.7	29.6	32.7
52.5°	10.9	13.4	14.7	15.7	18.6	19.2	23.3	27.3	33.6	38.5	40.8
50°	10.9	13.6	15.5	16.2	19.8	21.9	25.9	33.4	40.9	47.9	52.7
47.5°	10.9	13.9	16.3	16.9	21.2	24.8	29.0	39.6	50.1	58.0	66.1
45°	10.9	14.1	17.1	18.0	22.6	27.9	34.5	45.9	59.6	70.9	80.2
42.5°	10.9	14.4	18.0	19.1	24.1	31.1	40.0	53.6	69.3	84.3	101.5
40°	10.9	14.6	18.9	20.8	26.2	34.4	45.9	62.3	80.1	98.2	125.3
37.5°	10.9	14.9	19.9	22.8	28.8	37.8	52.2	71.2	92.7	114.9	150.3
35°	10.9	15.1	20.8	24.8	31.4	42.4	58.5	80.3	105.7	137.5	179.3
32.5°	10.9	15.4	21.8	26.9	34.1	47.5	65.4	89.8	119.0	160.6	212.1
30°	10.9	15.6	22.9	29.0	36.8	52.5	73.4	99.8	132.5	184.0	244.4
27.5°	10.9	15.8	23.9	31.1	40.4	57.4	81.2	110.8	147.7	207.6	276.1
25°	10.9	16.1	24.9	33.3	44.1	62.3	88.8	121.3	165.2	233.1	307.1
22.5°	10.9	16.3	26.0	35.4	47.7	67.3	96.2	131.3	181.8	255.0	339.9
20°	10.9	16.5	27.1	37.6	51.2	72.7	103.4	140.9	197.4	275.7	367.3
17.5°	10.9	16.7	28.1	39.8	54.7	77.9	110.5	150.0	211.9	295.2	393.2
15°	10.9	16.9	29.1	41.9	58.0	82.8	117.4	158.8	225.3	313.3	417.7
12.5°	10.9	17.1	30.2	44.0	61.2	87.5	123.9	167.5	238.8	330.0	440.8
10°	10.9	17.3	31.2	46.1	64.4	92.0	129.9	175.7	252.2	349.7	465.1
7.5°	10.9	17.5	32.1	48.1	67.3	96.2	135.6	183.3	264.6	368.9	494.2
5°	10.9	17.6	33.0	50.0	70.2	100.1	140.8	190.3	275.8	386.5	521.5
2.5°	10.9	17.8	33.9	51.8	72.9	103.8	145.5	196.6	285.9	402.5	546.7
0°	10.9	17.9	34.7	53.6	75.4	107.1	149.7	202.3	294.5	416.5	569.2
-2.5°	10.9	18.6	36.2	56.0	78.9	112.0	156.1	210.5	304.6	428.3	580.8
-5°	10.9	19.3	37.6	58.2	82.2	116.6	162.0	218.0	313.1	437.9	589.4
-7.5°	10.9	19.9	38.9	60.3	85.3	120.8	167.2	224.6	320.1	445.1	595.0
-10°	10.9	20.5	40.2	62.3	88.2	124.6	172.0	230.4	325.4	450.0	597.7
-12.5°	10.9	21.1	41.4	64.2	90.9	128.0	176.0	235.2	329.0	452.5	601.9
-15°	10.9	21.7	42.5	65.9	93.3	131.0	179.5	239.1	331.0	453.3	604.0
-17.5°	10.9	22.3	43.5	67.4	95.5	133.5	182.3	242.5	331.5	451.3	601.5
-20°	10.9	22.8	44.4	68.9	97.4	135.6	184.8	245.3	330.3	446.7	594.1



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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°	10.9	23.3	45.3	70.1	99.1	137.2	187.3	247.3	327.3	439.3	582.2
-25°	10.9	23.7	46.0	71.2	100.5	139.2	189.2	248.4	322.7	429.1	571.8
-27.5°	10.9	24.1	46.6	72.2	101.6	141.0	190.3	248.5	316.4	422.3	564.1
-30°	10.9	24.5	47.2	73.0	102.5	142.4	190.7	247.8	313.7	416.8	552.2
-32.5°	10.9	24.9	47.6	73.6	104.2	143.3	190.3	247.2	313.4	408.5	535.7
-35°	10.9	25.2	47.9	74.0	105.7	143.7	190.4	246.3	311.6	397.2	514.7
-37.5°	10.9	25.4	48.1	74.3	106.8	144.2	190.3	244.8	308.3	383.1	495.6
-40°	10.9	25.6	48.3	74.4	107.7	145.3	189.7	242.3	303.4	374.6	477.1
-42.5°	10.9	25.8	48.3	74.6	108.5	146.0	188.7	238.8	298.6	367.5	455.5
-45°	10.9	25.9	48.2	75.0	109.0	146.3	187.0	235.3	293.3	358.4	432.8
-47.5°	10.9	26.0	48.0	75.2	109.3	146.3	184.7	232.5	286.8	347.5	420.1
-50°	10.9	26.1	47.6	75.2	109.1	146.0	183.9	228.9	278.5	337.6	405.1
-52.5°	10.9	26.0	47.2	75.1	108.6	145.3	182.9	224.5	271.4	325.9	387.1
-55°	10.9	26.0	46.7	74.8	107.8	144.0	181.4	219.6	264.4	312.3	368.9
-57.5°	10.9	25.9	46.1	74.2	106.5	142.2	179.4	217.1	256.5	301.7	349.0
-60°	10.9	25.8	45.4	73.5	105.0	140.0	176.9	213.6	248.6	291.2	330.1
-62.5°	10.9	25.6	44.7	72.5	103.5	137.5	173.5	209.4	243.4	279.1	315.0
-65°	10.9	25.4	44.0	71.3	101.8	134.5	169.7	204.5	237.7	269.7	298.9
-67.5°	10.9	25.1	43.2	70.0	99.7	131.3	165.5	198.7	231.3	260.8	286.4
-70°	10.9	24.8	42.2	68.4	97.4	127.8	160.7	192.3	223.5	251.3	275.2
-72.5°	10.9	24.5	41.2	66.9	94.8	123.8	155.1	185.4	215.0	240.5	263.3
-75°	10.9	24.1	40.1	65.3	91.9	119.4	148.9	177.3	206.0	229.2	250.7
-77.5°	10.9	23.7	38.8	63.5	89.3	114.7	142.2	168.5	195.3	217.2	237.6
-80°	10.9	23.3	37.5	61.6	86.5	110.4	135.1	159.3	184.1	203.4	222.4
-82.5°	10.9	22.8	36.2	59.6	83.5	106.3	129.5	150.6	172.3	189.3	206.2
-85°	10.9	22.3	34.7	57.4	80.3	102.0	124.0	143.3	163.0	177.2	191.4
-87.5°	10.9	21.8	33.2	55.0	76.9	97.5	118.2	135.8	153.5	166.3	179.1
-90°	10.9	9.9	8.9	8.9	8.9	8.9	8.9	8.4	7.9	7.9	7.9



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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°	173.6	180.5	187.0	193.4	201.3	209.2	217.7	226.1	235.1	244.0	252.4
87.5°	7.9	7.4	7.4	7.5	7.0	6.6	6.3	6.0	5.5	5.0	4.9
85°	8.3	7.9	8.0	7.9	7.5	7.2	6.8	6.4	6.0	5.6	5.6
82.5°	9.0	8.9	8.6	8.0	7.8	7.8	7.4	6.9	6.6	6.3	6.2
80°	9.7	9.9	9.1	8.3	8.1	7.9	7.5	7.0	6.9	6.9	6.6
77.5°	10.1	10.0	9.4	8.9	8.5	8.2	7.9	7.6	7.3	7.0	6.9
75°	10.4	10.1	9.7	9.2	8.8	8.8	8.6	8.3	8.1	8.1	8.2
72.5°	11.0	10.7	10.2	9.4	9.1	9.4	9.4	9.1	9.3	9.7	9.7
70°	11.8	11.4	10.8	10.1	9.7	10.1	10.5	11.2	12.0	12.2	13.1
67.5°	12.8	12.4	11.5	10.9	10.7	11.3	11.9	14.4	16.7	17.9	19.3
65°	14.2	13.6	12.6	12.5	11.9	14.3	16.4	18.9	23.6	25.9	25.8
62.5°	16.0	16.2	14.9	15.2	17.2	19.4	23.0	28.4	33.9	36.1	34.2
60°	20.3	19.7	19.7	21.1	23.2	25.8	31.4	38.1	44.5	48.0	42.8
57.5°	26.0	25.8	27.3	28.1	31.0	31.9	39.3	47.6	53.1	57.2	50.5
55°	33.9	34.3	37.1	38.0	40.2	40.1	46.5	54.3	59.9	61.9	54.8
52.5°	45.1	45.6	50.8	51.5	50.9	51.5	53.9	62.3	67.0	67.1	60.9
50°	57.2	63.6	66.9	69.0	65.2	67.5	65.4	74.7	81.8	81.1	83.3
47.5°	75.3	83.8	88.6	92.0	89.1	96.5	94.9	109.3	114.3	141.5	145.7
45°	96.8	110.4	116.7	124.4	132.9	141.9	164.9	165.0	229.4	254.8	321.6
42.5°	120.8	141.2	158.7	161.8	204.6	229.5	261.0	325.5	388.4	467.5	497.6
40°	152.7	175.3	211.0	251.4	298.8	353.0	411.5	489.9	572.5	613.4	618.6
37.5°	188.0	230.6	280.3	353.6	426.5	497.5	571.7	648.4	707.9	723.1	778.6
35°	225.9	288.3	381.3	465.4	550.1	648.4	714.4	785.0	820.7	883.4	990.2
32.5°	273.7	347.7	463.2	572.5	666.8	773.7	836.9	891.0	974.9	1083.4	1319.4
30°	323.5	414.6	531.4	657.6	773.7	863.4	935.3	1003.2	1134.6	1396.9	2205.8
27.5°	365.1	472.1	594.9	735.6	868.1	949.8	1031.4	1149.9	1384.8	1925.2	3459.4
25°	402.3	518.5	657.2	820.5	950.2	1040.2	1146.4	1313.7	1682.2	3149.0	5115.1
22.5°	438.7	564.2	728.3	909.7	1033.4	1129.0	1289.9	1592.0	2364.2	4426.4	6789.3
20°	476.2	622.7	805.4	992.6	1113.2	1207.7	1415.2	1862.3	3443.0	5801.5	8266.7
17.5°	515.5	681.6	880.5	1051.6	1164.4	1290.2	1547.4	2083.9	4343.7	7085.8	9845.3
15°	553.9	738.2	944.7	1102.4	1211.2	1379.3	1724.9	2737.8	5296.1	8519.8	11533.2
12.5°	590.7	789.6	994.5	1142.3	1257.4	1462.3	1870.8	3458.2	6441.1	9851.3	13000.5
10°	625.4	835.6	1036.4	1180.0	1307.6	1550.8	2011.2	4163.4	7443.6	10716.5	13906.1
7.5°	661.1	873.9	1071.8	1216.0	1356.0	1634.3	2165.9	4711.3	8192.1	11382.1	14605.9
5°	693.3	903.4	1105.9	1256.2	1406.0	1708.3	2290.9	5130.1	8753.6	11932.1	15229.1
2.5°	721.5	926.6	1134.8	1294.2	1454.6	1770.3	2326.9	5246.5	9017.5	12228.0	15842.1
0°	745.7	944.1	1158.3	1327.9	1498.4	1820.7	2336.4	5226.1	9082.7	12317.6	16439.0
-2.5°	759.4	966.7	1200.2	1376.3	1537.6	1861.4	2385.8	5233.8	9137.9	12945.4	17206.5
-5°	769.0	983.6	1234.6	1419.2	1572.4	1890.0	2413.4	5114.9	9063.2	13275.9	17430.9
-7.5°	774.4	994.2	1259.9	1454.8	1603.9	1910.7	2428.9	4921.4	9067.4	13291.0	17148.7
-10°	777.3	1004.4	1271.8	1474.9	1630.9	1920.6	2421.4	4589.1	8707.5	12931.2	16683.8
-12.5°	786.6	1013.7	1276.0	1489.7	1652.5	1923.0	2432.4	4263.9	8032.2	12276.2	16019.3
-15°	790.3	1016.2	1273.7	1502.0	1687.4	1946.4	2432.8	3758.8	7155.7	11445.2	15183.6
-17.5°	787.9	1011.6	1266.4	1519.7	1719.7	1948.3	2377.6	3096.3	6154.5	10262.9	14083.3
-20°	779.3	1001.1	1250.6	1528.4	1738.1	1964.5	2361.4	2988.8	5173.3	8784.7	12747.2



REPORT NUMBER: P731565 (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°	766.8	984.9	1227.9	1509.1	1759.1	1999.8	2339.3	2845.7	4019.5	7096.1	11093.3
-25°	752.0	966.9	1203.6	1486.9	1768.8	2022.4	2270.7	2654.6	3342.0	5651.2	9046.2
-27.5°	736.4	941.4	1177.7	1450.0	1763.0	2011.6	2230.3	2548.7	3034.5	4046.0	6913.2
-30°	716.7	910.8	1139.5	1402.2	1710.7	1978.5	2205.7	2411.7	2743.5	3351.4	5072.4
-32.5°	692.6	874.9	1097.1	1347.8	1632.0	1938.7	2148.8	2327.8	2580.5	2953.0	3659.2
-35°	665.4	843.1	1049.9	1279.2	1538.6	1838.8	2063.2	2252.6	2423.3	2710.1	3161.6
-37.5°	637.6	804.0	989.2	1206.5	1453.6	1698.6	1963.4	2152.3	2324.3	2504.2	2825.9
-40°	605.2	755.3	928.8	1129.8	1339.3	1561.6	1807.3	2043.8	2213.8	2401.3	2594.2
-42.5°	569.8	709.1	864.1	1038.4	1226.5	1426.3	1644.4	1881.3	2109.0	2288.4	2465.6
-45°	541.1	659.2	795.3	950.6	1112.4	1290.2	1489.1	1696.6	1938.4	2170.5	2334.5
-47.5°	506.5	609.6	735.0	858.1	1004.6	1163.2	1333.1	1529.7	1732.4	1961.0	2185.3
-50°	473.4	567.9	664.4	775.4	899.7	1039.1	1190.5	1363.6	1551.1	1738.5	1941.8
-52.5°	450.8	523.0	605.3	692.8	801.4	921.0	1055.1	1202.0	1366.4	1530.1	1706.4
-55°	426.0	488.5	547.5	621.7	707.1	810.8	927.3	1055.7	1181.0	1330.4	1480.2
-57.5°	401.7	453.6	500.9	557.9	629.2	705.4	811.2	918.1	1027.0	1142.6	1269.2
-60°	377.1	419.6	461.0	507.0	559.1	626.5	700.1	789.5	878.4	970.8	1082.8
-62.5°	352.5	387.1	422.7	462.4	506.6	552.2	612.3	677.4	739.8	823.9	913.1
-65°	332.8	356.6	386.0	420.9	456.5	498.2	540.3	581.0	635.7	699.5	764.2
-67.5°	311.5	333.9	355.5	380.0	412.2	446.6	481.3	517.8	554.9	598.8	646.1
-70°	296.0	311.9	331.1	351.3	372.5	397.4	428.3	458.6	489.8	526.4	564.1
-72.5°	281.4	296.0	310.4	324.5	343.6	364.2	384.7	405.0	431.0	462.2	492.2
-75°	266.5	279.8	293.0	305.9	320.2	335.7	351.7	370.1	390.3	411.9	432.7
-77.5°	251.2	263.0	275.0	286.8	300.0	313.6	327.6	341.7	357.6	374.4	390.5
-80°	234.8	245.8	256.5	267.1	279.0	291.1	303.6	316.2	330.2	344.7	358.2
-82.5°	216.8	226.5	236.5	246.4	257.3	268.2	279.3	290.3	302.7	315.2	326.8
-85°	199.5	207.1	215.9	224.6	234.6	244.4	254.3	264.2	275.5	286.9	296.8
-87.5°	186.6	193.8	201.0	208.1	216.6	225.1	233.6	242.1	252.1	262.1	270.8
-90°	7.4	6.9	6.9	6.9	6.5	6.0	6.0	6.0	5.5	5.0	4.5



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	260.8	266.3	271.7	276.2	280.6	286.6	292.5	300.5	308.4	316.4	324.3
87.5°	4.8	4.4	4.0	3.9	3.9	3.9	3.9	3.5	3.0	3.0	3.0
85°	5.6	5.5	5.5	5.2	4.8	4.8	4.9	4.9	4.9	4.4	4.0
82.5°	6.0	6.0	6.0	5.5	5.0	5.0	5.0	5.0	5.0	4.5	4.0
80°	6.3	6.2	6.0	5.8	5.6	5.4	5.0	4.6	4.2	4.1	4.0
77.5°	7.0	6.8	6.4	6.2	6.1	5.6	5.1	4.6	4.1	4.0	4.0
75°	8.0	7.7	7.4	7.1	6.6	6.3	6.2	6.0	5.7	5.7	5.8
72.5°	9.6	9.4	9.4	9.7	9.6	9.9	10.4	10.8	11.2	12.0	12.9
70°	14.3	15.3	15.7	16.0	16.0	15.7	15.7	16.0	16.5	17.0	17.4
67.5°	20.9	22.5	23.3	23.7	22.1	21.2	21.3	21.8	22.6	24.0	26.0
65°	27.3	26.9	26.1	25.6	25.8	25.9	25.8	26.1	27.4	29.5	32.0
62.5°	32.0	27.7	25.1	23.9	24.7	26.3	25.2	24.4	25.5	26.8	28.1
60°	36.6	28.6	22.9	21.1	20.8	21.4	19.7	18.1	18.6	19.1	19.7
57.5°	41.0	30.6	21.2	18.0	15.1	13.7	13.2	12.7	12.3	12.1	12.1
55°	44.8	33.3	20.8	18.4	16.4	15.9	14.6	13.9	13.3	13.1	13.4
52.5°	49.7	42.8	34.1	31.7	35.7	36.0	31.9	37.8	42.4	44.6	45.4
50°	81.3	72.8	87.5	86.1	103.2	115.2	111.0	124.4	144.5	157.1	162.4
47.5°	178.7	179.0	207.9	233.5	254.6	282.3	303.5	324.1	352.7	370.4	378.4
45°	339.1	367.9	398.0	441.9	484.0	535.3	596.9	645.4	839.9	1033.7	1209.9
42.5°	519.0	550.7	594.7	690.4	803.9	1066.9	1537.0	1799.4	2126.9	2483.4	2620.3
40°	668.8	714.7	835.9	1105.0	1760.4	2384.4	3070.0	3649.6	4162.8	4458.0	4704.7
37.5°	853.8	963.5	1515.2	2276.9	3091.8	3873.9	4579.9	5192.5	5724.2	6155.5	6582.3
35°	1123.4	1852.0	2667.1	3657.5	4523.7	5248.3	5979.7	6681.6	7284.7	7928.8	8885.9
32.5°	2129.6	3082.0	4130.3	5018.1	5864.7	6778.9	7547.5	8670.6	9550.2	10724.6	12519.3
30°	3418.1	4613.4	5564.0	6451.9	7537.6	8767.8	10051.2	11769.0	13564.1	15436.7	17363.9
27.5°	5072.5	6279.8	7282.0	8466.4	9899.8	11536.9	13990.6	16412.1	18986.6	21328.3	23108.1
25°	7066.7	8345.2	10058.3	11776.9	13828.1	16625.9	19382.5	22349.5	24930.6	27228.6	29801.2
22.5°	8935.7	11031.5	13293.7	15888.2	19228.5	22383.9	25792.3	28794.8	32034.0	35309.3	37842.5
20°	10513.5	13243.8	16489.0	20229.1	23931.7	27506.2	31472.5	36258.4	41080.7	45388.9	48515.3
17.5°	12641.9	16099.7	20139.1	24584.9	28571.0	33000.5	38520.9	44739.2	51496.4	57475.2	62215.8
15°	14967.5	19005.2	23572.6	28230.8	33273.9	39209.4	46307.8	54249.1	62514.6	70898.1	78708.6
12.5°	16548.4	21279.0	26266.6	31805.5	38095.6	46053.6	54673.0	63476.5	72922.1	83353.3	92413.4
10°	17900.0	23148.1	29165.4	35608.1	42835.8	51390.5	60299.0	70991.9	82782.2	93054.4	102758.6
7.5°	19236.8	25403.6	31689.3	38397.6	46338.5	55630.0	66173.2	77673.1	89672.0	100837.1	108773.0
5°	20818.6	27216.5	33501.7	40587.9	48903.8	58568.7	69689.4	82895.1	95537.2	105800.3	112958.0
2.5°	22126.6	28304.0	34739.9	41753.2	50300.0	60391.1	72460.7	87136.1	100108.1	109704.3	116181.2
0°	22792.6	29000.5	35518.8	42645.9	51407.4	61703.9	74872.4	90288.9	102549.0	111414.0	118350.3
-2.5°	22873.8	28779.1	35177.2	42206.7	50769.6	61270.4	74770.2	90368.9	103184.3	112398.3	119241.7
-5°	22637.4	28487.4	34873.3	41907.0	50354.2	61292.1	74846.7	89846.1	102229.4	111773.4	118218.3
-7.5°	22067.3	27951.8	34349.4	41279.6	49594.0	60202.1	72844.2	86440.2	99177.6	109489.8	115435.2
-10°	21232.1	27013.9	33313.0	39947.1	47788.1	57595.8	68902.0	81349.1	94220.4	104080.3	110936.7
-12.5°	20175.7	25647.7	31669.2	37941.2	45344.1	54481.8	64560.0	74982.7	85772.3	97013.1	104154.4
-15°	18963.0	23963.1	29599.6	35905.3	43224.3	50839.5	58844.9	67336.4	77199.9	86394.6	94707.3
-17.5°	17812.3	22118.7	27377.8	33521.5	39753.9	46370.7	53231.6	60164.4	68073.9	75291.5	81748.3
-20°	16366.1	20033.0	24878.6	30337.5	36128.8	41862.1	47755.2	53372.0	59114.0	64988.9	70116.9



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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°	14661.6	18227.6	22270.5	27023.6	32583.5	37686.2	42406.1	46795.5	51398.0	55463.0	59683.2
-25°	12804.8	16233.5	19948.7	24281.6	28550.5	33176.4	37093.8	40826.7	44396.6	47588.5	50870.2
-27.5°	10524.6	14144.2	17806.4	21274.2	24796.9	28118.3	31770.8	35214.8	38192.1	40825.3	43426.2
-30°	7955.8	11797.6	15261.8	18236.7	21029.3	23799.6	26595.8	29485.8	32304.3	34702.1	36832.4
-32.5°	5870.0	9074.9	12276.9	15192.1	17636.3	19925.9	22100.5	24367.9	26339.2	28363.3	30333.3
-35°	3883.7	6148.9	8807.1	11770.7	14316.3	16242.5	18214.2	20022.0	21508.0	23077.2	24564.5
-37.5°	3268.4	3871.2	5649.5	8055.6	10413.2	12628.2	14594.5	16166.1	17533.8	18787.3	20071.7
-40°	2883.1	3227.0	3733.0	4607.1	6589.9	8538.4	10564.2	12234.7	13691.8	14893.4	16076.0
-42.5°	2630.2	2866.2	3118.2	3462.5	3801.8	4756.1	6419.1	7861.0	9227.6	10581.3	11799.7
-45°	2499.2	2631.6	2775.8	2963.0	3108.1	3366.8	3655.6	3927.0	5014.6	6190.0	7173.8
-47.5°	2342.1	2483.3	2591.0	2679.1	2749.8	2863.4	2983.5	3140.4	3392.2	3689.1	3915.7
-50°	2141.1	2312.6	2420.1	2508.5	2559.2	2603.1	2646.4	2744.7	2881.1	3043.0	3171.5
-52.5°	1881.4	2051.0	2203.2	2318.2	2374.2	2428.9	2483.2	2550.9	2628.4	2721.9	2789.0
-55°	1636.6	1778.3	1910.0	2017.2	2113.8	2201.9	2286.6	2358.2	2441.9	2530.8	2593.3
-57.5°	1404.2	1518.7	1626.7	1719.6	1803.2	1877.3	1963.9	2057.9	2165.0	2267.0	2338.7
-60°	1187.1	1278.1	1368.0	1443.4	1511.4	1572.1	1652.2	1731.1	1825.0	1908.5	1969.3
-62.5°	992.8	1072.3	1138.8	1195.7	1247.0	1297.9	1365.2	1431.2	1508.3	1575.1	1625.6
-65°	824.9	891.2	938.0	980.3	1017.4	1060.7	1112.8	1165.7	1226.4	1278.3	1319.7
-67.5°	695.4	740.4	769.8	795.8	826.7	861.1	900.5	942.7	989.9	1029.1	1060.9
-70°	597.6	625.6	643.4	662.8	685.3	709.2	735.9	767.7	803.5	834.1	860.5
-72.5°	520.1	541.5	556.3	571.3	584.8	601.1	619.0	642.8	669.3	693.2	715.5
-75°	452.9	468.2	482.0	495.0	506.8	520.6	535.0	555.0	576.7	596.4	615.0
-77.5°	407.8	419.6	428.7	437.5	446.1	457.5	469.3	485.5	502.4	518.7	534.5
-80°	371.6	380.7	388.4	394.9	400.8	410.5	420.6	433.9	447.3	461.4	475.4
-82.5°	338.1	346.1	353.5	359.6	365.2	374.0	383.0	394.9	406.7	418.5	430.1
-85°	306.7	314.0	320.9	326.8	332.5	339.7	346.7	356.9	367.2	377.8	388.4
-87.5°	279.4	286.3	293.1	297.7	302.1	308.5	314.8	323.6	332.3	341.5	350.7
-90°	4.0	4.0	4.0	3.5	3.0	3.0	3.0	2.5	2.0	2.0	2.0



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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°	328.3	332.2	334.2	336.2	334.2	332.2	328.3	324.3	316.4	308.4	300.5
87.5°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.0	3.0	3.5
85°	3.5	3.0	3.5	4.0	3.5	3.0	3.5	4.0	4.4	4.9	4.9
82.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5	5.0	5.0
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.1	4.2	4.6
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.1	4.6
75°	5.5	5.0	5.0	5.0	5.0	5.0	5.5	5.8	5.7	5.7	6.0
72.5°	13.4	13.7	14.3	14.9	14.3	13.7	13.4	12.9	12.0	11.2	10.8
70°	17.6	17.8	17.9	17.9	17.9	17.8	17.6	17.4	17.0	16.5	16.0
67.5°	27.0	27.4	28.6	29.8	28.6	27.4	27.0	26.0	24.0	22.6	21.8
65°	33.8	35.2	35.6	35.7	35.6	35.2	33.8	32.0	29.5	27.4	26.1
62.5°	29.3	30.6	30.8	30.7	30.8	30.6	29.3	28.1	26.8	25.5	24.4
60°	20.4	21.0	21.3	21.8	21.3	21.0	20.4	19.7	19.1	18.6	18.1
57.5°	12.3	13.0	13.0	12.9	13.0	13.0	12.3	12.1	12.1	12.3	12.7
55°	13.5	13.8	13.5	12.9	13.5	13.8	13.5	13.4	13.1	13.3	13.9
52.5°	44.2	42.0	39.8	37.7	39.8	42.0	44.2	45.4	44.6	42.4	37.8
50°	160.6	158.0	154.1	149.7	154.1	158.0	160.6	162.4	157.1	144.5	124.4
47.5°	385.6	386.4	382.6	375.8	382.6	386.4	385.6	378.4	370.4	352.7	324.1
45°	1363.5	1437.6	1477.6	1505.4	1477.6	1437.6	1363.5	1209.9	1033.7	839.9	645.4
42.5°	2739.9	2843.9	2923.0	2939.3	2923.0	2843.9	2739.9	2620.3	2483.4	2126.9	1799.4
40°	4997.2	5014.7	4724.7	4287.0	4724.7	5014.7	4997.2	4704.7	4458.0	4162.8	3649.6
37.5°	7091.0	7822.7	8672.7	9106.5	8672.7	7822.7	7091.0	6582.3	6155.5	5724.2	5192.5
35°	10177.3	11277.9	11634.9	11644.2	11634.9	11277.9	10177.3	8885.9	7928.8	7284.7	6681.6
32.5°	14137.9	15032.8	15510.6	15380.9	15510.6	15032.8	14137.9	12519.3	10724.6	9550.2	8670.6
30°	18486.9	19265.5	19271.8	19011.4	19271.8	19265.5	18486.9	17363.9	15436.7	13564.1	11769.0
27.5°	24950.2	26595.4	27753.3	28065.4	27753.3	26595.4	24950.2	23108.1	21328.3	18986.6	16412.1
25°	32119.1	33927.0	35038.6	35443.4	35038.6	33927.0	32119.1	29801.2	27228.6	24930.6	22349.5
22.5°	40200.0	41957.8	42759.9	43179.5	42759.9	41957.8	40200.0	37842.5	35309.3	32034.0	28794.8
20°	51495.4	53994.6	54936.7	55339.4	54936.7	53994.6	51495.4	48515.3	45388.9	41080.7	36258.4
17.5°	67141.5	72077.4	75163.6	76748.6	75163.6	72077.4	67141.5	62215.8	57475.2	51496.4	44739.2
15°	84488.9	89499.9	92795.3	94771.3	92795.3	89499.9	84488.9	78708.6	70898.1	62514.6	54249.1
12.5°	99370.9	103838.0	107020.9	108913.1	107020.9	103838.0	99370.9	92413.4	83353.3	72922.1	63476.5
10°	108918.3	112749.1	116051.3	117664.1	116051.3	112749.1	108918.3	102758.6	93054.4	82782.2	70991.9
7.5°	114314.1	118768.5	120558.5	121661.5	120558.5	118768.5	114314.1	108773.0	100837.1	89672.0	77673.1
5°	118496.0	122016.1	123668.5	124474.9	123668.5	122016.1	118496.0	112958.0	105800.3	95537.2	82895.1
2.5°	121287.6	124343.6	125512.1	126162.7	125512.1	124343.6	121287.6	116181.2	109704.3	100108.1	87136.1
0°	122627.4	124880.5	126190.5	125551.8	126190.5	124880.5	122627.4	118350.3	111414.0	102549.0	90288.9
-2.5°	122636.7	124778.4	125752.2	125278.1	125752.2	124778.4	122636.7	119241.7	112398.3	103184.3	90368.9
-5°	121587.5	123185.9	124371.9	123991.9	124371.9	123185.9	121587.5	118218.3	111773.4	102229.4	89846.1
-7.5°	118758.1	120882.3	121751.1	121793.4	121751.1	120882.3	118758.1	115435.2	109489.8	99177.6	86440.2
-10°	114865.7	117220.9	118145.8	118240.2	118145.8	117220.9	114865.7	110936.7	104080.3	94220.4	81349.1
-12.5°	109080.6	111843.5	113174.6	113411.8	113174.6	111843.5	109080.6	104154.4	97013.1	85772.3	74982.7
-15°	100100.1	103824.0	105925.9	106663.4	105925.9	103824.0	100100.1	94707.3	86394.6	77199.9	67336.4
-17.5°	87891.5	92340.7	94961.7	95885.9	94961.7	92340.7	87891.5	81748.3	75291.5	68073.9	60164.4
-20°	75156.7	78455.2	80475.7	81308.3	80475.7	78455.2	75156.7	70116.9	64988.9	59114.0	53372.0



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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°	63573.2	66232.7	67733.9	68400.7	67733.9	66232.7	63573.2	59683.2	55463.0	51398.0	46795.5
-25°	53526.8	55766.7	56536.5	56970.7	56536.5	55766.7	53526.8	50870.2	47588.5	44396.6	40826.7
-27.5°	45318.1	47095.0	47509.7	47892.9	47509.7	47095.0	45318.1	43426.2	40825.3	38192.1	35214.8
-30°	38401.3	39947.6	40159.0	40583.3	40159.0	39947.6	38401.3	36832.4	34702.1	32304.3	29485.8
-32.5°	31932.8	33309.7	33837.1	33918.2	33837.1	33309.7	31932.8	30333.3	28363.3	26339.2	24367.9
-35°	25738.7	26646.1	27005.1	27027.1	27005.1	26646.1	25738.7	24564.5	23077.2	21508.0	20022.0
-37.5°	20868.6	21447.1	21862.9	21748.4	21862.9	21447.1	20868.6	20071.7	18787.3	17533.8	16166.1
-40°	16738.6	17320.6	17700.7	17608.2	17700.7	17320.6	16738.6	16076.0	14893.4	13691.8	12234.7
-42.5°	12471.8	13111.9	13471.1	13371.7	13471.1	13111.9	12471.8	11799.7	10581.3	9227.6	7861.0
-45°	7734.7	8298.9	8563.6	8402.5	8563.6	8298.9	7734.7	7173.8	6190.0	5014.6	3927.0
-47.5°	4035.2	4163.6	4204.7	4147.2	4204.7	4163.6	4035.2	3915.7	3689.1	3392.2	3140.4
-50°	3271.7	3352.3	3386.9	3376.6	3386.9	3352.3	3271.7	3171.5	3043.0	2881.1	2744.7
-52.5°	2841.6	2878.8	2891.1	2883.8	2891.1	2878.8	2841.6	2789.0	2721.9	2628.4	2550.9
-55°	2646.2	2683.1	2695.9	2691.4	2695.9	2683.1	2646.2	2593.3	2530.8	2441.9	2358.2
-57.5°	2398.2	2443.6	2471.7	2486.1	2471.7	2443.6	2398.2	2338.7	2267.0	2165.0	2057.9
-60°	2018.4	2054.6	2065.1	2059.7	2065.1	2054.6	2018.4	1969.3	1908.5	1825.0	1731.1
-62.5°	1665.3	1695.1	1717.4	1732.5	1717.4	1695.1	1665.3	1625.6	1575.1	1508.3	1431.2
-65°	1350.2	1371.7	1376.3	1372.5	1376.3	1371.7	1350.2	1319.7	1278.3	1226.4	1165.7
-67.5°	1083.1	1099.1	1101.3	1097.8	1101.3	1099.1	1083.1	1060.9	1029.1	989.9	942.7
-70°	878.2	891.7	893.5	891.5	893.5	891.7	878.2	860.5	834.1	803.5	767.7
-72.5°	728.4	738.3	745.7	751.7	745.7	738.3	728.4	715.5	693.2	669.3	642.8
-75°	624.4	631.5	633.2	633.7	633.2	631.5	624.4	615.0	596.4	576.7	555.0
-77.5°	542.8	549.9	554.9	559.3	554.9	549.9	542.8	534.5	518.7	502.4	485.5
-80°	481.7	487.1	491.1	494.8	491.1	487.1	481.7	475.4	461.4	447.3	433.9
-82.5°	436.1	441.7	445.1	448.2	445.1	441.7	436.1	430.1	418.5	406.7	394.9
-85°	393.0	397.4	400.6	403.6	400.6	397.4	393.0	388.4	377.8	367.2	356.9
-87.5°	354.8	358.9	361.0	363.0	361.0	358.9	354.8	350.7	341.5	332.3	323.6
-90°	1.5	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.0	2.0	2.5



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	292.5	286.6	280.6	276.2	271.7	266.3	260.8	252.4	244.0	235.1	226.1
87.5°	3.9	3.9	3.9	3.9	4.0	4.4	4.8	4.9	5.0	5.5	6.0
85°	4.9	4.8	4.8	5.2	5.5	5.5	5.6	5.6	5.6	6.0	6.4
82.5°	5.0	5.0	5.0	5.5	6.0	6.0	6.0	6.2	6.3	6.6	6.9
80°	5.0	5.4	5.6	5.8	6.0	6.2	6.3	6.6	6.9	6.9	7.0
77.5°	5.1	5.6	6.1	6.2	6.4	6.8	7.0	6.9	7.0	7.3	7.6
75°	6.2	6.3	6.6	7.1	7.4	7.7	8.0	8.2	8.1	8.1	8.3
72.5°	10.4	9.9	9.6	9.7	9.4	9.4	9.6	9.7	9.7	9.3	9.1
70°	15.7	15.7	16.0	16.0	15.7	15.3	14.3	13.1	12.2	12.0	11.2
67.5°	21.3	21.2	22.1	23.7	23.3	22.5	20.9	19.3	17.9	16.7	14.4
65°	25.8	25.9	25.8	25.6	26.1	26.9	27.3	25.8	25.9	23.6	18.9
62.5°	25.2	26.3	24.7	23.9	25.1	27.7	32.0	34.2	36.1	33.9	28.4
60°	19.7	21.4	20.8	21.1	22.9	28.6	36.6	42.8	48.0	44.5	38.1
57.5°	13.2	13.7	15.1	18.0	21.2	30.6	41.0	50.5	57.2	53.1	47.6
55°	14.6	15.9	16.4	18.4	20.8	33.3	44.8	54.8	61.9	59.9	54.3
52.5°	31.9	36.0	35.7	31.7	34.1	42.8	49.7	60.9	67.1	67.0	62.3
50°	111.0	115.2	103.2	86.1	87.5	72.8	81.3	83.3	81.1	81.8	74.7
47.5°	303.5	282.3	254.6	233.5	207.9	179.0	178.7	145.7	141.5	114.3	109.3
45°	596.9	535.3	484.0	441.9	398.0	367.9	339.1	321.6	254.8	229.4	165.0
42.5°	1537.0	1066.9	803.9	690.4	594.7	550.7	519.0	497.6	467.5	388.4	325.5
40°	3070.0	2384.4	1760.4	1105.0	835.9	714.7	668.8	618.6	613.4	572.5	489.9
37.5°	4579.9	3873.9	3091.8	2276.9	1515.2	963.5	853.8	778.6	723.1	707.9	648.4
35°	5979.7	5248.3	4523.7	3657.5	2667.1	1852.0	1123.4	990.2	883.4	820.7	785.0
32.5°	7547.5	6778.9	5864.7	5018.1	4130.3	3082.0	2129.6	1319.4	1083.4	974.9	891.0
30°	10051.2	8767.8	7537.6	6451.9	5564.0	4613.4	3418.1	2205.8	1396.9	1134.6	1003.2
27.5°	13990.6	11536.9	9899.8	8466.4	7282.0	6279.8	5072.5	3459.4	1925.2	1384.8	1149.9
25°	19382.5	16625.9	13828.1	11776.9	10058.3	8345.2	7066.7	5115.1	3149.0	1682.2	1313.7
22.5°	25792.3	22383.9	19228.5	15888.2	13293.7	11031.5	8935.7	6789.3	4426.4	2364.2	1592.0
20°	31472.5	27506.2	23931.7	20229.1	16489.0	13243.8	10513.5	8266.7	5801.5	3443.0	1862.3
17.5°	38520.9	33000.5	28571.0	24584.9	20139.1	16099.7	12641.9	9845.3	7085.8	4343.7	2083.9
15°	46307.8	39209.4	33273.9	28230.8	23572.6	19005.2	14967.5	11533.2	8519.8	5296.1	2737.8
12.5°	54673.0	46053.6	38095.6	31805.5	26266.6	21279.0	16548.4	13000.5	9851.3	6441.1	3458.2
10°	60299.0	51390.5	42835.8	35608.1	29165.4	23148.1	17900.0	13906.1	10716.5	7443.6	4163.4
7.5°	66173.2	55630.0	46338.5	38397.6	31689.3	25403.6	19236.8	14605.9	11382.1	8192.1	4711.3
5°	69689.4	58568.7	48903.8	40587.9	33501.7	27216.5	20818.6	15229.1	11932.1	8753.6	5130.1
2.5°	72460.7	60391.1	50300.0	41753.2	34739.9	28304.0	22126.6	15842.1	12228.0	9017.5	5246.5
0°	74872.4	61703.9	51407.4	42645.9	35518.8	29000.5	22792.6	16439.0	12317.6	9082.7	5226.1
-2.5°	74770.2	61270.4	50769.6	42206.7	35177.2	28779.1	22873.8	17206.5	12945.4	9137.9	5233.8
-5°	74846.7	61292.1	50354.2	41907.0	34873.3	28487.4	22637.4	17430.9	13275.9	9063.2	5114.9
-7.5°	72844.2	60202.1	49594.0	41279.6	34349.4	27951.8	22067.3	17148.7	13291.0	9067.4	4921.4
-10°	68902.0	57595.8	47788.1	39947.1	33313.0	27013.9	21232.1	16683.8	12931.2	8707.5	4589.1
-12.5°	64560.0	54481.8	45344.1	37941.2	31669.2	25647.7	20175.7	16019.3	12276.2	8032.2	4263.9
-15°	58844.9	50839.5	43224.3	35905.3	29599.6	23963.1	18963.0	15183.6	11445.2	7155.7	3758.8
-17.5°	53231.6	46370.7	39753.9	33521.5	27377.8	22118.7	17812.3	14083.3	10262.9	6154.5	3096.3
-20°	47755.2	41862.1	36128.8	30337.5	24878.6	20033.0	16366.1	12747.2	8784.7	5173.3	2988.8



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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°	42406.1	37686.2	32583.5	27023.6	22270.5	18227.6	14661.6	11093.3	7096.1	4019.5	2845.7
-25°	37093.8	33176.4	28550.5	24281.6	19948.7	16233.5	12804.8	9046.2	5651.2	3342.0	2654.6
-27.5°	31770.8	28118.3	24796.9	21274.2	17806.4	14144.2	10524.6	6913.2	4046.0	3034.5	2548.7
-30°	26595.8	23799.6	21029.3	18236.7	15261.8	11797.6	7955.8	5072.4	3351.4	2743.5	2411.7
-32.5°	22100.5	19925.9	17636.3	15192.1	12276.9	9074.9	5870.0	3659.2	2953.0	2580.5	2327.8
-35°	18214.2	16242.5	14316.3	11770.7	8807.1	6148.9	3883.7	3161.6	2710.1	2423.3	2252.6
-37.5°	14594.5	12628.2	10413.2	8055.6	5649.5	3871.2	3268.4	2825.9	2504.2	2324.3	2152.3
-40°	10564.2	8538.4	6589.9	4607.1	3733.0	3227.0	2883.1	2594.2	2401.3	2213.8	2043.8
-42.5°	6419.1	4756.1	3801.8	3462.5	3118.2	2866.2	2630.2	2465.6	2288.4	2109.0	1881.3
-45°	3655.6	3366.8	3108.1	2963.0	2775.8	2631.6	2499.2	2334.5	2170.5	1938.4	1696.6
-47.5°	2983.5	2863.4	2749.8	2679.1	2591.0	2483.3	2342.1	2185.3	1961.0	1732.4	1529.7
-50°	2646.4	2603.1	2559.2	2508.5	2420.1	2312.6	2141.1	1941.8	1738.5	1551.1	1363.6
-52.5°	2483.2	2428.9	2374.2	2318.2	2203.2	2051.0	1881.4	1706.4	1530.1	1366.4	1202.0
-55°	2286.6	2201.9	2113.8	2017.2	1910.0	1778.3	1636.6	1480.2	1330.4	1181.0	1055.7
-57.5°	1963.9	1877.3	1803.2	1719.6	1626.7	1518.7	1404.2	1269.2	1142.6	1027.0	918.1
-60°	1652.2	1572.1	1511.4	1443.4	1368.0	1278.1	1187.1	1082.8	970.8	878.4	789.5
-62.5°	1365.2	1297.9	1247.0	1195.7	1138.8	1072.3	992.8	913.1	823.9	739.8	677.4
-65°	1112.8	1060.7	1017.4	980.3	938.0	891.2	824.9	764.2	699.5	635.7	581.0
-67.5°	900.5	861.1	826.7	795.8	769.8	740.4	695.4	646.1	598.8	554.9	517.8
-70°	735.9	709.2	685.3	662.8	643.4	625.6	597.6	564.1	526.4	489.8	458.6
-72.5°	619.0	601.1	584.8	571.3	556.3	541.5	520.1	492.2	462.2	431.0	405.0
-75°	535.0	520.6	506.8	495.0	482.0	468.2	452.9	432.7	411.9	390.3	370.1
-77.5°	469.3	457.5	446.1	437.5	428.7	419.6	407.8	390.5	374.4	357.6	341.7
-80°	420.6	410.5	400.8	394.9	388.4	380.7	371.6	358.2	344.7	330.2	316.2
-82.5°	383.0	374.0	365.2	359.6	353.5	346.1	338.1	326.8	315.2	302.7	290.3
-85°	346.7	339.7	332.5	326.8	320.9	314.0	306.7	296.8	286.9	275.5	264.2
-87.5°	314.8	308.5	302.1	297.7	293.1	286.3	279.4	270.8	262.1	252.1	242.1
-90°	3.0	3.0	3.0	3.5	4.0	4.0	4.0	4.5	5.0	5.5	6.0



REPORT NUMBER: P731565 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-70-5S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	217.7	209.2	201.3	193.4	187.0	180.5	173.6	166.6	155.2	143.8	128.0
87.5°	6.3	6.6	7.0	7.5	7.4	7.4	7.9	8.3	8.5	8.6	9.0
85°	6.8	7.2	7.5	7.9	8.0	7.9	8.3	8.8	9.1	9.3	9.6
82.5°	7.4	7.8	7.8	8.0	8.6	8.9	9.0	9.2	9.7	10.0	10.2
80°	7.5	7.9	8.1	8.3	9.1	9.9	9.7	9.7	10.3	10.7	10.8
77.5°	7.9	8.2	8.5	8.9	9.4	10.0	10.1	10.2	10.9	11.4	11.5
75°	8.6	8.8	8.8	9.2	9.7	10.1	10.4	10.7	11.5	12.1	12.1
72.5°	9.4	9.4	9.1	9.4	10.2	10.7	11.0	11.2	11.9	12.6	12.7
70°	10.5	10.1	9.7	10.1	10.8	11.4	11.8	12.2	12.4	13.1	13.5
67.5°	11.9	11.3	10.7	10.9	11.5	12.4	12.8	13.3	13.6	13.8	14.3
65°	16.4	14.3	11.9	12.5	12.6	13.6	14.2	14.7	14.8	15.1	15.1
62.5°	23.0	19.4	17.2	15.2	14.9	16.2	16.0	17.2	16.3	16.6	16.4
60°	31.4	25.8	23.2	21.1	19.7	19.7	20.3	19.9	19.7	18.1	17.9
57.5°	39.3	31.9	31.0	28.1	27.3	25.8	26.0	25.4	23.9	22.3	19.6
55°	46.5	40.1	40.2	38.0	37.1	34.3	33.9	32.7	29.6	27.7	21.7
52.5°	53.9	51.5	50.9	51.5	50.8	45.6	45.1	40.8	38.5	33.6	27.3
50°	65.4	67.5	65.2	69.0	66.9	63.6	57.2	52.7	47.9	40.9	33.4
47.5°	94.9	96.5	89.1	92.0	88.6	83.8	75.3	66.1	58.0	50.1	39.6
45°	164.9	141.9	132.9	124.4	116.7	110.4	96.8	80.2	70.9	59.6	45.9
42.5°	261.0	229.5	204.6	161.8	158.7	141.2	120.8	101.5	84.3	69.3	53.6
40°	411.5	353.0	298.8	251.4	211.0	175.3	152.7	125.3	98.2	80.1	62.3
37.5°	571.7	497.5	426.5	353.6	280.3	230.6	188.0	150.3	114.9	92.7	71.2
35°	714.4	648.4	550.1	465.4	381.3	288.3	225.9	179.3	137.5	105.7	80.3
32.5°	836.9	773.7	666.8	572.5	463.2	347.7	273.7	212.1	160.6	119.0	89.8
30°	935.3	863.4	773.7	657.6	531.4	414.6	323.5	244.4	184.0	132.5	99.8
27.5°	1031.4	949.8	868.1	735.6	594.9	472.1	365.1	276.1	207.6	147.7	110.8
25°	1146.4	1040.2	950.2	820.5	657.2	518.5	402.3	307.1	233.1	165.2	121.3
22.5°	1289.9	1129.0	1033.4	909.7	728.3	564.2	438.7	339.9	255.0	181.8	131.3
20°	1415.2	1207.7	1113.2	992.6	805.4	622.7	476.2	367.3	275.7	197.4	140.9
17.5°	1547.4	1290.2	1164.4	1051.6	880.5	681.6	515.5	393.2	295.2	211.9	150.0
15°	1724.9	1379.3	1211.2	1102.4	944.7	738.2	553.9	417.7	313.3	225.3	158.8
12.5°	1870.8	1462.3	1257.4	1142.3	994.5	789.6	590.7	440.8	330.0	238.8	167.5
10°	2011.2	1550.8	1307.6	1180.0	1036.4	835.6	625.4	465.1	349.7	252.2	175.7
7.5°	2165.9	1634.3	1356.0	1216.0	1071.8	873.9	661.1	494.2	368.9	264.6	183.3
5°	2290.9	1708.3	1406.0	1256.2	1105.9	903.4	693.3	521.5	386.5	275.8	190.3
2.5°	2326.9	1770.3	1454.6	1294.2	1134.8	926.6	721.5	546.7	402.5	285.9	196.6
0°	2336.4	1820.7	1498.4	1327.9	1158.3	944.1	745.7	569.2	416.5	294.5	202.3
-2.5°	2385.8	1861.4	1537.6	1376.3	1200.2	966.7	759.4	580.8	428.3	304.6	210.5
-5°	2413.4	1890.0	1572.4	1419.2	1234.6	983.6	769.0	589.4	437.9	313.1	218.0
-7.5°	2428.9	1910.7	1603.9	1454.8	1259.9	994.2	774.4	595.0	445.1	320.1	224.6
-10°	2421.4	1920.6	1630.9	1474.9	1271.8	1004.4	777.3	597.7	450.0	325.4	230.4
-12.5°	2432.4	1923.0	1652.5	1489.7	1276.0	1013.7	786.6	601.9	452.5	329.0	235.2
-15°	2432.8	1946.4	1687.4	1502.0	1273.7	1016.2	790.3	604.0	453.3	331.0	239.1
-17.5°	2377.6	1948.3	1719.7	1519.7	1266.4	1011.6	787.9	601.5	451.3	331.5	242.5
-20°	2361.4	1964.5	1738.1	1528.4	1250.6	1001.1	779.3	594.1	446.7	330.3	245.3



REPORT NUMBER: P731565 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-70-5S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2339.3	1999.8	1759.1	1509.1	1227.9	984.9	766.8	582.2	439.3	327.3	247.3
-25°	2270.7	2022.4	1768.8	1486.9	1203.6	966.9	752.0	571.8	429.1	322.7	248.4
-27.5°	2230.3	2011.6	1763.0	1450.0	1177.7	941.4	736.4	564.1	422.3	316.4	248.5
-30°	2205.7	1978.5	1710.7	1402.2	1139.5	910.8	716.7	552.2	416.8	313.7	247.8
-32.5°	2148.8	1938.7	1632.0	1347.8	1097.1	874.9	692.6	535.7	408.5	313.4	247.2
-35°	2063.2	1838.8	1538.6	1279.2	1049.9	843.1	665.4	514.7	397.2	311.6	246.3
-37.5°	1963.4	1698.6	1453.6	1206.5	989.2	804.0	637.6	495.6	383.1	308.3	244.8
-40°	1807.3	1561.6	1339.3	1129.8	928.8	755.3	605.2	477.1	374.6	303.4	242.3
-42.5°	1644.4	1426.3	1226.5	1038.4	864.1	709.1	569.8	455.5	367.5	298.6	238.8
-45°	1489.1	1290.2	1112.4	950.6	795.3	659.2	541.1	432.8	358.4	293.3	235.3
-47.5°	1333.1	1163.2	1004.6	858.1	735.0	609.6	506.5	420.1	347.5	286.8	232.5
-50°	1190.5	1039.1	899.7	775.4	664.4	567.9	473.4	405.1	337.6	278.5	228.9
-52.5°	1055.1	921.0	801.4	692.8	605.3	523.0	450.8	387.1	325.9	271.4	224.5
-55°	927.3	810.8	707.1	621.7	547.5	488.5	426.0	368.9	312.3	264.4	219.6
-57.5°	811.2	705.4	629.2	557.9	500.9	453.6	401.7	349.0	301.7	256.5	217.1
-60°	700.1	626.5	559.1	507.0	461.0	419.6	377.1	330.1	291.2	248.6	213.6
-62.5°	612.3	552.2	506.6	462.4	422.7	387.1	352.5	315.0	279.1	243.4	209.4
-65°	540.3	498.2	456.5	420.9	386.0	356.6	332.8	298.9	269.7	237.7	204.5
-67.5°	481.3	446.6	412.2	380.0	355.5	333.9	311.5	286.4	260.8	231.3	198.7
-70°	428.3	397.4	372.5	351.3	331.1	311.9	296.0	275.2	251.3	223.5	192.3
-72.5°	384.7	364.2	343.6	324.5	310.4	296.0	281.4	263.3	240.5	215.0	185.4
-75°	351.7	335.7	320.2	305.9	293.0	279.8	266.5	250.7	229.2	206.0	177.3
-77.5°	327.6	313.6	300.0	286.8	275.0	263.0	251.2	237.6	217.2	195.3	168.5
-80°	303.6	291.1	279.0	267.1	256.5	245.8	234.8	222.4	203.4	184.1	159.3
-82.5°	279.3	268.2	257.3	246.4	236.5	226.5	216.8	206.2	189.3	172.3	150.6
-85°	254.3	244.4	234.6	224.6	215.9	207.1	199.5	191.4	177.2	163.0	143.3
-87.5°	233.6	225.1	216.6	208.1	201.0	193.8	186.6	179.1	166.3	153.5	135.8
-90°	6.0	6.0	6.5	6.9	6.9	6.9	7.4	7.9	7.9	7.9	8.4



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	112.1	92.7	73.4	52.5	31.7	21.3	10.9
87.5°	9.4	9.3	9.2	9.2	9.2	10.1	10.9
85°	9.9	9.8	9.6	9.6	9.4	10.3	10.9
82.5°	10.4	10.2	9.9	9.9	9.7	10.6	10.9
80°	11.0	10.6	10.3	10.2	10.0	10.8	10.9
77.5°	11.5	11.1	10.7	10.5	10.3	11.0	10.9
75°	12.1	11.8	11.1	10.9	10.6	11.2	10.9
72.5°	12.7	12.5	11.8	11.2	10.9	11.5	10.9
70°	13.3	13.2	12.5	11.6	11.2	11.7	10.9
67.5°	14.2	13.9	13.2	12.2	11.6	11.9	10.9
65°	15.1	14.7	13.9	12.8	11.9	12.2	10.9
62.5°	16.0	15.5	14.7	13.4	12.3	12.4	10.9
60°	16.9	16.4	15.4	13.9	12.7	12.7	10.9
57.5°	18.8	17.2	16.4	14.5	13.3	12.9	10.9
55°	21.0	18.1	17.4	15.1	14.0	13.2	10.9
52.5°	23.3	19.2	18.6	15.7	14.7	13.4	10.9
50°	25.9	21.9	19.8	16.2	15.5	13.6	10.9
47.5°	29.0	24.8	21.2	16.9	16.3	13.9	10.9
45°	34.5	27.9	22.6	18.0	17.1	14.1	10.9
42.5°	40.0	31.1	24.1	19.1	18.0	14.4	10.9
40°	45.9	34.4	26.2	20.8	18.9	14.6	10.9
37.5°	52.2	37.8	28.8	22.8	19.9	14.9	10.9
35°	58.5	42.4	31.4	24.8	20.8	15.1	10.9
32.5°	65.4	47.5	34.1	26.9	21.8	15.4	10.9
30°	73.4	52.5	36.8	29.0	22.9	15.6	10.9
27.5°	81.2	57.4	40.4	31.1	23.9	15.8	10.9
25°	88.8	62.3	44.1	33.3	24.9	16.1	10.9
22.5°	96.2	67.3	47.7	35.4	26.0	16.3	10.9
20°	103.4	72.7	51.2	37.6	27.1	16.5	10.9
17.5°	110.5	77.9	54.7	39.8	28.1	16.7	10.9
15°	117.4	82.8	58.0	41.9	29.1	16.9	10.9
12.5°	123.9	87.5	61.2	44.0	30.2	17.1	10.9
10°	129.9	92.0	64.4	46.1	31.2	17.3	10.9
7.5°	135.6	96.2	67.3	48.1	32.1	17.5	10.9
5°	140.8	100.1	70.2	50.0	33.0	17.6	10.9
2.5°	145.5	103.8	72.9	51.8	33.9	17.8	10.9
0°	149.7	107.1	75.4	53.6	34.7	17.9	10.9
-2.5°	156.1	112.0	78.9	56.0	36.2	18.6	10.9
-5°	162.0	116.6	82.2	58.2	37.6	19.3	10.9
-7.5°	167.2	120.8	85.3	60.3	38.9	19.9	10.9
-10°	172.0	124.6	88.2	62.3	40.2	20.5	10.9
-12.5°	176.0	128.0	90.9	64.2	41.4	21.1	10.9
-15°	179.5	131.0	93.3	65.9	42.5	21.7	10.9
-17.5°	182.3	133.5	95.5	67.4	43.5	22.3	10.9
-20°	184.8	135.6	97.4	68.9	44.4	22.8	10.9



REPORT NUMBER: P731565 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-70-5S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	187.3	137.2	99.1	70.1	45.3	23.3	10.9
-25°	189.2	139.2	100.5	71.2	46.0	23.7	10.9
-27.5°	190.3	141.0	101.6	72.2	46.6	24.1	10.9
-30°	190.7	142.4	102.5	73.0	47.2	24.5	10.9
-32.5°	190.3	143.3	104.2	73.6	47.6	24.9	10.9
-35°	190.4	143.7	105.7	74.0	47.9	25.2	10.9
-37.5°	190.3	144.2	106.8	74.3	48.1	25.4	10.9
-40°	189.7	145.3	107.7	74.4	48.3	25.6	10.9
-42.5°	188.7	146.0	108.5	74.6	48.3	25.8	10.9
-45°	187.0	146.3	109.0	75.0	48.2	25.9	10.9
-47.5°	184.7	146.3	109.3	75.2	48.0	26.0	10.9
-50°	183.9	146.0	109.1	75.2	47.6	26.1	10.9
-52.5°	182.9	145.3	108.6	75.1	47.2	26.0	10.9
-55°	181.4	144.0	107.8	74.8	46.7	26.0	10.9
-57.5°	179.4	142.2	106.5	74.2	46.1	25.9	10.9
-60°	176.9	140.0	105.0	73.5	45.4	25.8	10.9
-62.5°	173.5	137.5	103.5	72.5	44.7	25.6	10.9
-65°	169.7	134.5	101.8	71.3	44.0	25.4	10.9
-67.5°	165.5	131.3	99.7	70.0	43.2	25.1	10.9
-70°	160.7	127.8	97.4	68.4	42.2	24.8	10.9
-72.5°	155.1	123.8	94.8	66.9	41.2	24.5	10.9
-75°	148.9	119.4	91.9	65.3	40.1	24.1	10.9
-77.5°	142.2	114.7	89.3	63.5	38.8	23.7	10.9
-80°	135.1	110.4	86.5	61.6	37.5	23.3	10.9
-82.5°	129.5	106.3	83.5	59.6	36.2	22.8	10.9
-85°	124.0	102.0	80.3	57.4	34.7	22.3	10.9
-87.5°	118.2	97.5	76.9	55.0	33.2	21.8	10.9
-90°	8.9	8.9	8.9	8.9	8.9	9.9	10.9

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

