

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: P701746 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-57-80-7F-VHE-S**

Issue Date: 8/29/2023

Test Information

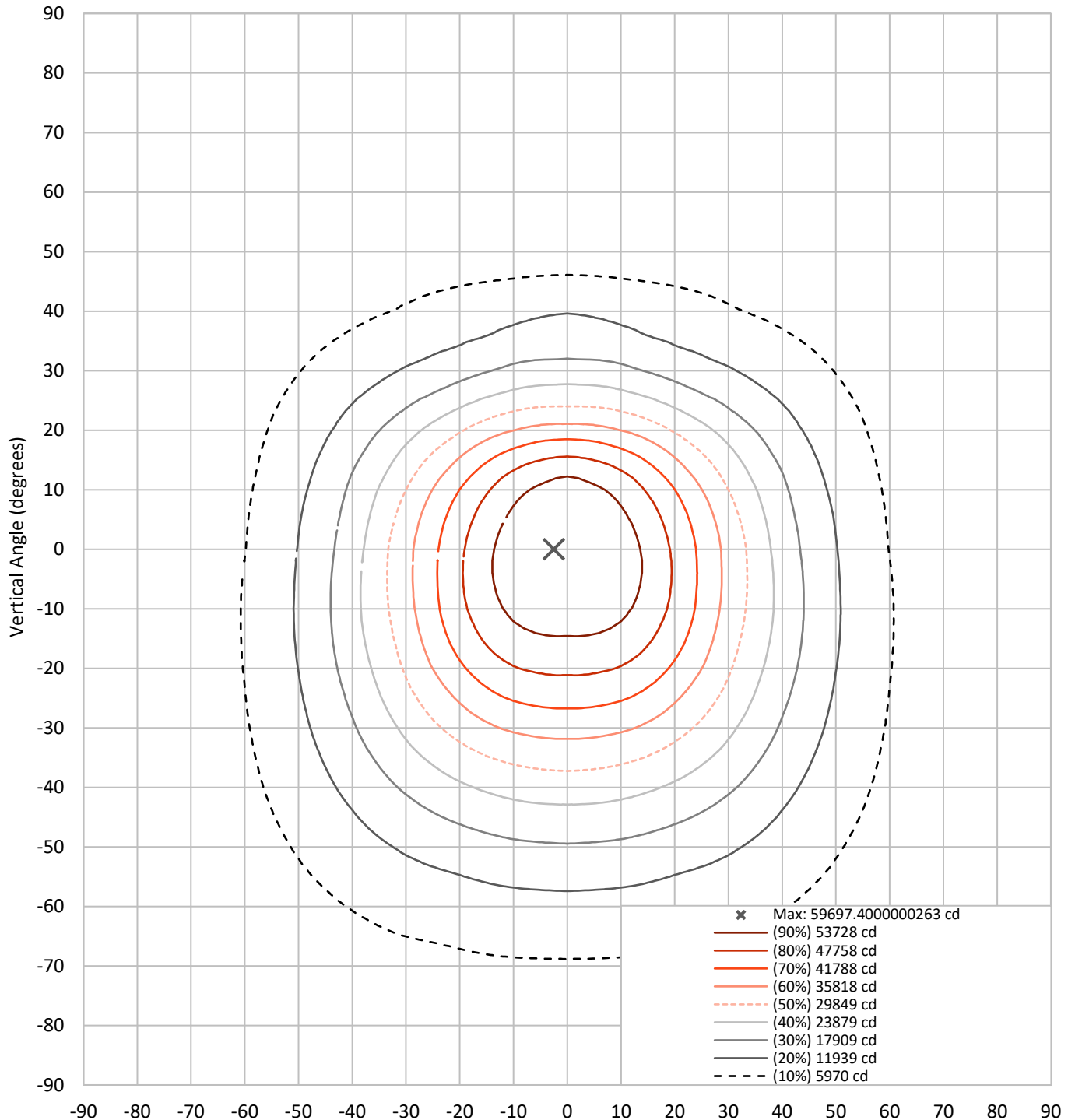
Test Method: LM-79-08
Report Number: P701746 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-6)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-57-80-7F-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 7F BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	79419.5 lumens	Max Intensity:	59697.4 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	113.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	66.6°H x 61.2°V	Field Angle (10%):	119.6°H x 114.9°V
Beam Lumens:	43120.9 lumens	Field Lumens:	74423.3 lumens
Beam Efficiency:	54.3%	Field Efficiency:	93.7%
Input Watts (W):	697.5		
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





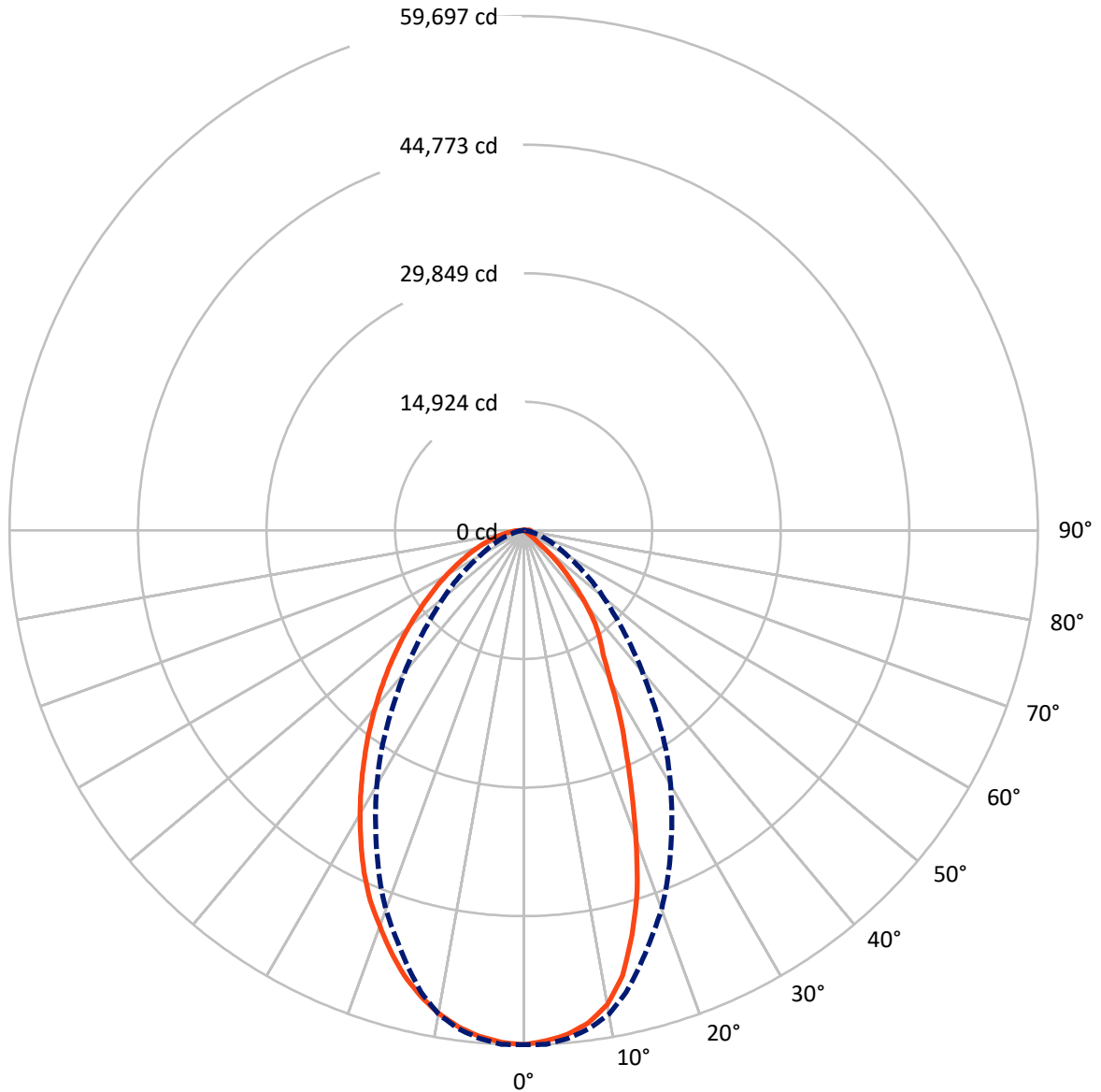
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Lumen Table

90																			
80	1.4	6.5		14.7		18.5		20.2		18.5		14.7		6.5		1.4			
70																			
60	4.7	3.2	4.6	5.1	3.9	2.3	1.6	1.3	1.3	1.6	2.3	3.9	5.1	4.6	3.2	4.7			
50		6.6	8.4	8.6	9.6	12.4	17.1	19.1	19.1	17.1	12.4	9.6	8.6	8.4	6.6				
40	12.3	12.8	24.0	47.5	82.8	128.3	171.7	202.4	202.4	171.7	128.3	82.8	47.5	24.0	12.8	12.3			
30		23.5	59.5	122.1	201.8	290.2	380.4	459.3	459.3	380.4	290.2	201.8	122.1	59.5	23.5				
20	21.7	34.7	95.5	202.0	353.9	538.5	728.7	850.9	850.9	728.7	538.5	353.9	202.0	95.5	34.7	21.7			
10		44.0	125.9	283.2	531.4	857.0	1196.8	1425.6	1425.6	1196.8	857.0	531.4	283.2	125.9	44.0				
0	27.5	51.2	147.7	339.7	655.2	1067.9	1473.0	1737.9	1737.9	1473.0	1067.9	655.2	339.7	147.7	51.2	27.5			
-10		55.7	160.6	366.2	699.1	1120.7	1532.1	1760.1	1760.1	1532.1	1120.7	699.1	366.2	160.6	55.7				
-20	29.0	56.9	161.1	362.1	670.2	1057.4	1416.2	1599.3	1599.3	1416.2	1057.4	670.2	362.1	161.1	56.9	29.0			
-30		54.3	148.6	324.7	585.8	894.0	1169.1	1310.3	1310.3	1169.1	894.0	585.8	324.7	148.6	54.3				
-40	24.2	48.5	128.3	268.8	466.5	685.2	868.2	968.2	968.2	868.2	685.2	466.5	268.8	128.3	48.5	24.2			
-50		40.4	102.4	204.4	339.7	478.6	592.7	657.6	657.6	592.7	478.6	339.7	204.4	102.4	40.4				
-60	15.5	31.2	75.2	142.0	225.6	305.3	371.9	409.5	409.5	371.9	305.3	225.6	142.0	75.2	31.2	15.5			
-70		21.5	49.2	88.9	136.2	177.8	214.0	232.6	232.6	214.0	177.8	136.2	88.9	49.2	21.5				
-80	6.9	57.2		160.2		261.3		304.6		261.3		160.2		57.2		6.9			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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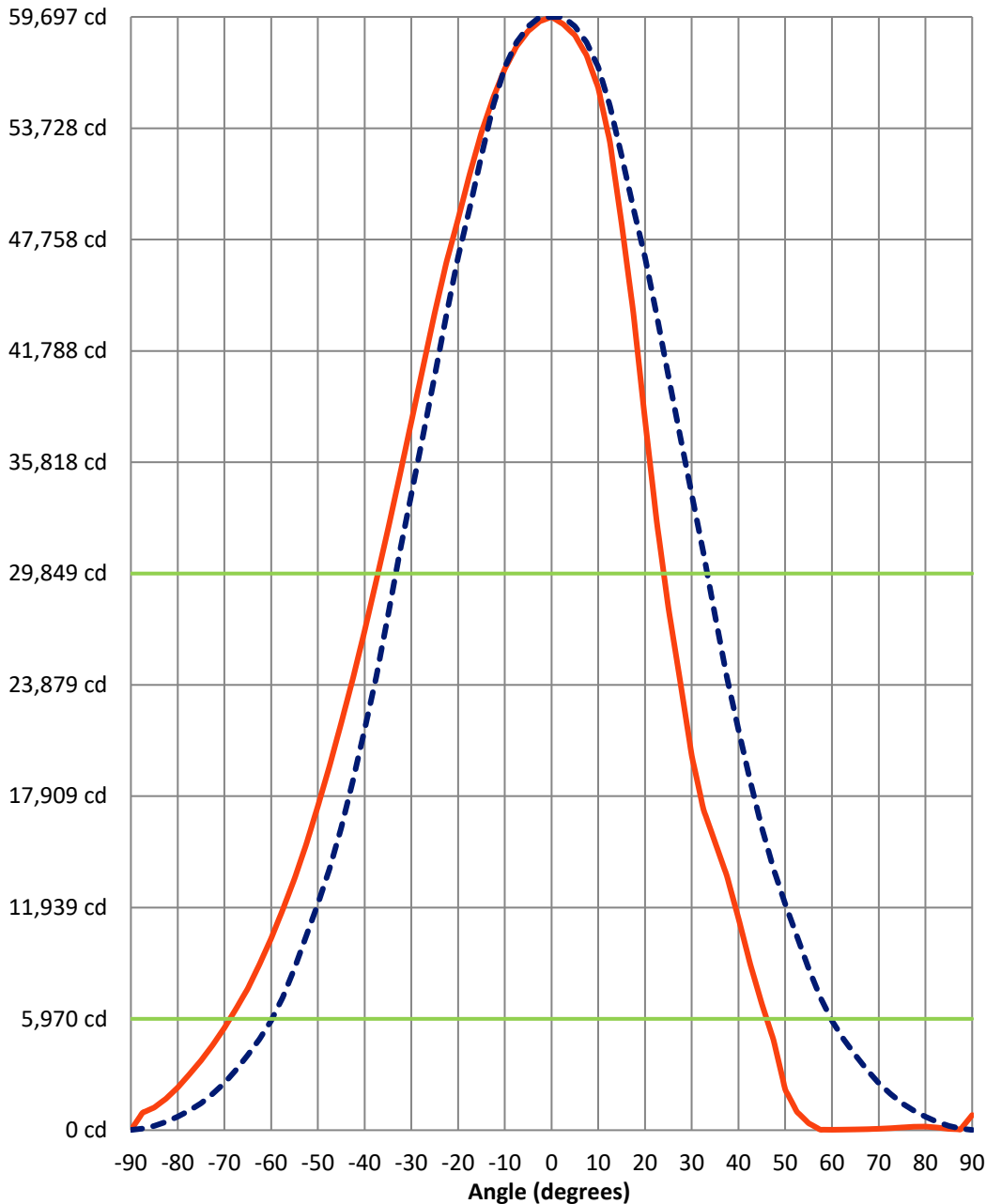
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 66.6°
 V Angle: 61.2°
 Lumens: 43120.9
 Efficiency: 54.3%

Field:
 H Angle: 119.6°
 V Angle: 114.9°
 Lumens: 74423.3
 Efficiency: 93.7%

Spill:
 Lumens: 4996.2
 Efficiency: 6.3%

— 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°	13.0	45.5	78.0	120.7	163.4	206.1	248.8	279.9	311.0	342.1	373.2
87.5°	13.0	16.5	18.9	20.5	21.8	22.8	23.5	23.5	23.2	22.5	21.6
85°	13.0	19.1	23.0	26.2	28.8	30.8	32.2	32.6	32.4	31.6	30.3
82.5°	13.0	21.7	27.0	31.8	35.7	38.7	40.9	41.7	42.5	45.6	48.0
80°	13.0	24.3	31.1	37.4	42.6	46.7	50.5	57.0	62.5	67.2	70.9
77.5°	13.0	26.8	35.2	43.0	49.5	57.8	67.3	75.3	82.6	88.8	91.7
75°	13.0	29.4	39.3	48.6	58.1	75.0	84.3	93.6	103.1	109.4	106.4
72.5°	13.0	31.9	43.4	54.1	74.2	92.3	101.8	114.2	128.0	130.8	122.7
70°	13.0	34.5	47.6	61.2	90.4	110.0	121.2	141.8	154.0	154.1	157.6
67.5°	13.0	37.0	51.7	74.9	106.7	127.9	150.9	170.3	181.7	197.5	198.8
65°	13.0	39.5	55.9	88.6	123.2	151.4	181.4	199.8	227.2	242.8	246.1
62.5°	13.0	41.9	60.2	102.2	139.7	180.6	212.8	240.7	274.1	292.9	305.4
60°	13.0	44.4	64.5	115.8	156.4	210.2	245.0	286.8	322.6	356.2	368.4
57.5°	13.0	46.8	74.3	129.3	181.8	240.3	289.4	334.7	383.7	422.5	442.1
55°	13.0	49.2	84.1	142.8	207.8	270.8	336.1	385.9	449.7	494.6	524.5
52.5°	13.0	51.5	93.8	156.2	233.8	303.5	383.7	450.4	517.9	580.2	613.1
50°	13.0	53.9	103.3	169.5	259.9	345.2	432.1	517.8	592.3	670.3	724.5
47.5°	13.0	56.1	112.6	184.3	286.0	387.1	482.8	586.6	679.3	765.0	847.4
45°	13.0	58.4	121.7	204.0	312.1	429.1	543.6	656.8	773.3	887.3	980.3
42.5°	13.0	60.5	130.6	223.4	338.1	471.2	604.8	736.2	870.4	1017.0	1159.0
40°	13.0	62.7	139.2	242.6	367.6	513.3	666.4	822.6	976.1	1152.8	1357.7
37.5°	13.0	64.7	147.6	261.3	400.4	555.3	728.1	910.2	1094.2	1298.1	1570.4
35°	13.0	66.7	155.7	279.3	432.5	602.3	789.8	998.6	1211.3	1467.3	1807.7
32.5°	13.0	68.7	163.6	296.7	464.1	651.3	854.7	1087.8	1327.0	1629.6	2016.7
30°	13.0	70.5	171.1	313.4	494.9	699.5	927.0	1178.9	1441.1	1784.8	2212.5
27.5°	13.0	72.3	178.3	329.4	522.9	746.6	998.4	1274.0	1560.4	1932.6	2395.1
25°	13.0	74.0	185.2	344.6	549.4	792.6	1068.6	1366.5	1686.1	2083.4	2565.2
22.5°	13.0	75.7	191.7	359.0	574.5	835.1	1137.3	1456.2	1804.9	2228.9	2743.9
20°	13.0	77.2	197.8	372.4	598.2	870.4	1204.2	1542.7	1916.8	2363.0	2912.5
17.5°	13.0	78.6	203.5	385.0	620.2	903.0	1256.7	1625.7	2021.5	2485.7	3070.4
15°	13.0	79.9	208.7	396.6	640.7	932.9	1297.5	1695.4	2119.0	2597.2	3216.8
12.5°	13.0	81.1	213.6	407.2	659.3	960.0	1333.5	1749.9	2204.9	2697.6	3351.0
10°	13.0	82.2	217.9	416.8	676.2	984.2	1364.8	1800.5	2282.0	2815.7	3487.8
7.5°	13.0	83.2	221.8	425.2	691.2	1005.5	1391.4	1846.6	2353.5	2932.5	3643.7
5°	13.0	84.1	225.1	432.6	704.3	1023.7	1413.2	1887.6	2418.5	3042.7	3786.3
2.5°	13.0	84.8	228.0	438.8	715.3	1038.9	1430.4	1922.8	2476.1	3144.1	3914.6
0°	13.0	85.4	230.3	443.8	724.2	1051.0	1442.9	1951.7	2525.5	3234.8	4027.7
-2.5°	13.0	87.1	233.8	450.5	736.0	1070.6	1477.6	1999.6	2587.1	3298.4	4099.3
-5°	13.0	88.6	236.8	456.0	745.6	1086.8	1507.2	2040.2	2639.1	3349.3	4154.4
-7.5°	13.0	90.0	239.2	460.1	752.9	1099.6	1531.3	2072.8	2681.1	3387.7	4193.1
-10°	13.0	91.2	241.0	462.9	757.7	1108.6	1549.5	2097.3	2712.7	3413.8	4215.0
-12.5°	13.0	92.3	242.3	464.3	760.0	1113.8	1561.3	2113.1	2733.4	3428.5	4232.2
-15°	13.0	93.2	242.9	464.4	759.7	1115.0	1566.3	2120.0	2740.5	3434.5	4236.4
-17.5°	13.0	94.0	242.9	463.0	756.8	1112.2	1564.2	2115.1	2732.7	3425.5	4220.6
-20°	13.0	94.5	242.4	460.1	751.3	1105.1	1555.6	2099.5	2712.7	3401.0	4184.6



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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°	13.0	95.0	241.2	455.9	742.9	1093.7	1541.9	2075.6	2680.3	3360.8	4127.9
-25°	13.0	95.2	239.4	450.1	731.8	1082.4	1522.2	2043.2	2635.4	3304.7	4050.4
-27.5°	13.0	95.3	237.1	442.9	718.0	1068.5	1496.4	2002.6	2577.8	3236.9	3974.2
-30°	13.0	95.2	234.1	434.1	701.8	1050.0	1464.7	1953.6	2517.3	3162.0	3880.1
-32.5°	13.0	94.9	230.5	424.0	687.0	1026.8	1426.9	1906.9	2452.5	3071.8	3767.2
-35°	13.0	94.5	226.4	412.3	669.3	998.9	1391.7	1856.3	2378.3	2966.4	3635.5
-37.5°	13.0	93.8	221.6	399.2	648.6	969.0	1354.0	1798.8	2294.7	2846.0	3498.8
-40°	13.0	93.0	216.3	384.6	625.0	940.2	1310.3	1734.5	2201.9	2733.1	3354.9
-42.5°	13.0	92.0	210.4	369.6	603.0	907.4	1260.5	1663.4	2113.9	2621.2	3197.4
-45°	13.0	90.9	204.0	354.7	583.3	870.7	1204.7	1590.8	2024.8	2495.9	3030.7
-47.5°	13.0	89.6	197.0	338.4	561.2	830.2	1143.2	1518.2	1928.2	2357.6	2873.6
-50°	13.0	88.1	189.5	326.8	536.9	785.9	1087.3	1438.3	1820.1	2233.5	2700.7
-52.5°	13.0	86.5	181.5	316.0	510.3	738.1	1028.5	1351.5	1710.9	2098.6	2516.4
-55°	13.0	84.6	173.0	304.1	481.6	698.6	965.2	1260.0	1596.8	1953.4	2350.4
-57.5°	13.0	82.7	164.0	291.0	450.8	658.6	897.5	1178.6	1475.2	1809.4	2172.9
-60°	13.0	80.6	154.6	276.8	418.7	615.8	827.7	1089.4	1351.1	1660.0	1990.1
-62.5°	13.0	78.3	149.7	261.5	396.5	570.5	770.8	994.5	1238.5	1502.6	1809.4
-65°	13.0	75.9	144.5	245.3	372.7	522.7	710.6	901.8	1120.4	1359.2	1620.0
-67.5°	13.0	73.4	139.0	228.1	347.4	480.3	647.4	822.2	997.2	1215.2	1444.8
-70°	13.0	70.7	133.1	210.0	320.7	443.8	581.4	739.5	898.4	1065.6	1272.3
-72.5°	13.0	67.9	127.0	198.8	292.8	405.5	528.9	654.1	797.0	946.5	1102.4
-75°	13.0	65.0	120.7	188.8	263.8	365.5	476.7	582.1	692.5	824.6	962.2
-77.5°	13.0	62.0	114.1	178.4	246.1	324.1	422.5	513.7	607.9	707.1	818.5
-80°	13.0	58.8	107.2	167.6	230.6	295.8	366.7	443.7	523.5	607.5	695.2
-82.5°	13.0	55.6	100.2	156.4	214.4	274.2	335.7	384.9	437.5	505.8	577.0
-85°	13.0	52.3	92.9	144.8	197.8	252.0	307.4	350.5	393.8	437.6	481.8
-87.5°	13.0	49.0	85.5	132.9	180.8	229.3	278.4	315.4	352.7	390.2	427.9
-90°	13.0	14.0	14.9	14.9	14.9	14.9	14.9	14.4	14.0	13.5	13.0



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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°	400.6	428.0	455.4	482.8	509.7	536.7	563.6	590.5	615.6	640.7	665.7
87.5°	22.2	22.7	23.2	23.7	22.7	21.6	20.4	19.0	20.6	22.3	24.1
85°	31.4	32.5	35.2	37.3	38.8	40.7	43.2	46.1	51.5	57.0	62.3
82.5°	52.3	55.8	58.3	59.9	65.0	71.4	78.2	84.6	90.7	96.6	102.2
80°	75.6	79.2	79.9	80.8	87.6	96.0	104.9	114.2	121.7	128.5	134.9
77.5°	92.6	94.6	97.1	99.8	108.7	120.9	133.1	145.4	154.5	161.8	168.3
75°	105.9	109.7	118.6	124.1	134.0	148.2	162.5	176.3	185.4	190.4	193.7
72.5°	127.6	140.4	148.3	151.3	160.9	177.7	192.8	206.2	213.2	212.2	207.8
70°	161.0	172.9	183.2	187.1	191.2	207.6	219.9	229.5	233.7	225.3	208.6
67.5°	197.1	215.4	224.8	225.3	219.5	233.7	244.7	243.2	235.9	217.5	195.6
65°	243.4	260.9	269.2	265.8	250.0	253.2	252.5	245.9	229.0	203.7	177.4
62.5°	295.3	310.9	317.5	308.7	279.9	267.5	260.4	243.5	217.6	192.9	168.1
60°	361.3	364.8	369.0	353.2	317.0	282.8	269.3	252.4	224.7	190.8	170.3
57.5°	435.3	423.4	425.4	407.7	365.9	304.8	298.9	277.3	253.9	209.2	188.2
55°	520.6	488.1	493.3	477.1	438.8	370.5	347.3	344.2	311.4	276.2	237.5
52.5°	623.1	578.8	577.8	575.2	554.5	495.6	442.5	479.4	500.1	460.8	485.8
50°	738.2	716.1	682.8	721.5	733.8	702.6	655.9	759.0	883.3	940.1	938.7
47.5°	891.0	878.0	849.2	919.2	1006.8	1086.9	1106.2	1292.5	1480.7	1688.8	1713.5
45°	1070.9	1104.0	1087.6	1236.4	1423.9	1639.6	1799.8	1980.6	2408.9	2657.4	3025.5
42.5°	1270.7	1367.2	1455.1	1595.6	2037.8	2312.4	2554.1	3007.8	3433.9	3794.1	4174.5
40°	1527.8	1654.7	1846.8	2229.0	2705.8	3023.6	3439.7	3956.6	4388.2	4794.9	5184.3
37.5°	1806.5	2018.6	2278.7	2826.6	3369.2	3767.3	4276.8	4789.5	5280.1	5736.5	6280.9
35°	2101.2	2383.7	2793.3	3365.8	3935.1	4489.7	5050.4	5621.6	6181.4	6806.8	7419.0
32.5°	2421.9	2749.2	3266.2	3874.1	4511.4	5155.7	5807.2	6473.9	7185.5	7914.7	8564.2
30°	2711.2	3156.4	3706.7	4366.0	5085.2	5825.2	6585.5	7352.8	8226.4	9089.6	9868.8
27.5°	2932.3	3529.3	4143.9	4872.7	5660.6	6485.9	7366.8	8317.5	9334.7	10324.2	11249.1
25°	3144.3	3816.3	4563.2	5379.1	6254.5	7182.4	8167.7	9232.1	10480.3	11639.7	12793.4
22.5°	3366.5	4105.4	4911.3	5872.6	6832.6	7888.6	8981.8	10206.9	11586.3	12956.8	14359.0
20°	3602.9	4404.7	5255.1	6268.8	7373.5	8584.4	9748.1	11173.9	12708.4	14301.1	16011.3
17.5°	3833.3	4679.7	5588.2	6656.6	7853.9	9210.2	10486.9	12110.0	13810.4	15632.0	17566.5
15°	4055.3	4930.4	5892.1	7013.3	8318.7	9758.5	11251.6	13030.1	14931.8	16942.9	18974.3
12.5°	4266.3	5156.6	6166.0	7337.1	8752.7	10291.3	11936.1	13806.5	15889.5	18112.4	20326.7
10°	4463.6	5358.6	6409.3	7626.3	9150.7	10799.3	12545.4	14500.6	16666.4	18956.7	21426.4
7.5°	4613.2	5526.4	6623.9	7879.5	9507.5	11272.8	13078.6	15108.8	17322.9	19708.3	22363.3
5°	4727.7	5662.6	6822.4	8171.8	9850.3	11664.5	13517.1	15627.4	17861.1	20355.1	23172.1
2.5°	4814.7	5777.8	6992.4	8443.4	10157.3	11931.4	13803.2	15967.7	18345.2	20959.0	23829.5
0°	4878.2	5869.8	7130.7	8675.7	10406.4	12127.8	14014.4	16214.9	18738.5	21470.1	24315.0
-2.5°	4986.1	6033.0	7324.0	8859.8	10561.9	12320.1	14286.5	16559.1	19111.6	21792.5	24733.5
-5°	5072.4	6167.3	7480.2	8998.2	10663.1	12446.0	14474.0	16798.4	19355.8	22009.7	24949.6
-7.5°	5134.9	6269.0	7597.5	9090.1	10730.7	12547.7	14605.1	16917.6	19447.2	22139.3	24983.4
-10°	5171.9	6317.0	7634.5	9117.3	10767.2	12602.5	14655.4	16935.0	19419.9	22108.8	24890.8
-12.5°	5185.8	6315.9	7623.1	9095.1	10739.2	12576.3	14615.5	16852.4	19276.7	21912.4	24654.9
-15°	5176.6	6283.6	7570.1	9022.9	10644.6	12466.1	14484.7	16671.6	19010.9	21512.1	24177.4
-17.5°	5144.2	6219.8	7474.8	8900.3	10482.0	12269.5	14251.6	16337.5	18629.1	21050.1	23570.9
-20°	5088.6	6124.5	7336.9	8727.2	10260.1	12011.4	13922.2	15941.5	18142.7	20498.6	22891.3



REPORT NUMBER: P701746 (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°	5009.9	5997.8	7175.8	8532.3	10047.0	11718.0	13528.9	15465.0	17523.1	19840.5	22120.8
-25°	4919.5	5886.0	7007.2	8319.9	9777.8	11374.4	13068.5	14919.7	16862.2	19031.1	21238.3
-27.5°	4816.4	5750.1	6827.6	8065.4	9447.5	10992.4	12612.2	14349.9	16189.2	18139.4	20255.7
-30°	4688.9	5595.7	6612.5	7786.6	9112.8	10576.6	12134.1	13704.9	15447.2	17285.9	19225.8
-32.5°	4537.7	5409.2	6397.8	7516.1	8748.6	10095.3	11576.2	13069.9	14677.4	16379.1	18177.0
-35°	4376.0	5219.8	6158.7	7207.9	8349.0	9611.1	10963.6	12384.5	13862.8	15461.9	17043.4
-37.5°	4213.2	5003.2	5879.4	6881.6	7974.7	9096.0	10312.4	11664.1	13049.4	14463.3	15915.6
-40°	4030.1	4759.9	5601.5	6536.0	7525.7	8566.1	9705.9	10912.5	12200.5	13475.9	14777.7
-42.5°	3830.6	4535.5	5307.1	6140.9	7067.1	8035.2	9058.0	10187.1	11309.7	12468.1	13670.1
-45°	3641.3	4290.4	4993.7	5768.7	6587.4	7482.6	8437.2	9424.1	10434.7	11458.4	12552.6
-47.5°	3437.8	4035.8	4698.3	5370.0	6122.2	6932.6	7790.9	8678.9	9554.3	10493.0	11428.2
-50°	3225.9	3796.9	4367.7	4992.0	5660.1	6387.3	7165.9	7931.6	8732.0	9544.8	10387.9
-52.5°	3013.4	3543.8	4060.8	4607.3	5211.6	5857.4	6535.7	7219.9	7931.2	8646.7	9369.3
-55°	2783.9	3276.0	3745.2	4238.8	4768.7	5347.3	5921.7	6537.2	7153.7	7808.4	8402.1
-57.5°	2566.9	2986.5	3420.8	3871.8	4346.1	4838.6	5348.6	5863.6	6424.7	6989.3	7498.0
-60°	2352.9	2707.9	3087.2	3499.6	3924.0	4360.3	4783.0	5242.6	5717.3	6179.7	6645.1
-62.5°	2131.0	2445.3	2769.6	3119.5	3505.8	3881.6	4263.1	4650.4	5037.1	5447.3	5840.8
-65°	1912.0	2180.1	2467.6	2770.8	3081.4	3421.0	3756.4	4083.5	4428.9	4764.6	5090.6
-67.5°	1683.3	1928.9	2175.0	2427.6	2705.4	2982.6	3261.6	3562.1	3853.8	4128.1	4404.5
-70°	1478.9	1676.6	1894.5	2117.4	2338.4	2565.8	2813.6	3061.9	3305.7	3539.5	3778.7
-72.5°	1275.8	1453.1	1631.2	1809.7	2001.9	2193.3	2386.8	2581.7	2785.5	2989.4	3187.7
-75°	1094.7	1227.7	1382.5	1540.0	1690.0	1836.4	1986.1	2151.7	2314.7	2474.7	2633.2
-77.5°	929.7	1042.0	1158.0	1277.5	1391.6	1514.3	1637.6	1761.0	1882.6	2001.6	2118.1
-80°	774.5	853.3	946.7	1043.5	1134.2	1223.5	1312.9	1402.2	1492.2	1586.4	1683.7
-82.5°	641.1	705.3	770.3	835.8	896.1	954.9	1015.8	1085.4	1156.7	1227.4	1297.4
-85°	519.1	555.9	605.8	656.2	704.3	751.8	798.6	844.7	892.1	938.8	984.7
-87.5°	460.2	492.3	524.2	556.0	586.6	616.9	647.0	676.9	707.4	737.8	768.2
-90°	13.0	13.0	13.0	13.0	12.5	12.1	11.6	11.1	10.7	10.2	9.8



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	690.8	698.7	706.6	714.5	722.4	741.0	759.5	778.1	796.6	800.8	805.0
87.5°	26.0	26.1	26.1	26.0	26.0	30.1	34.4	38.8	43.2	42.8	42.2
85°	67.5	68.5	68.9	69.0	68.7	74.4	80.2	85.8	91.2	87.5	83.3
82.5°	107.5	109.5	111.3	113.3	115.4	121.3	127.2	132.7	137.9	139.6	141.2
80°	140.8	144.5	147.2	149.3	150.9	156.0	161.4	166.6	171.5	176.7	182.0
77.5°	173.0	174.2	173.5	171.8	169.1	169.9	171.1	171.7	171.7	174.4	177.6
75°	195.3	192.8	185.1	176.3	166.5	160.4	156.0	151.3	146.4	145.6	145.9
72.5°	200.3	190.1	177.6	162.0	146.6	135.9	128.6	121.7	115.0	111.8	109.8
70°	189.7	170.2	153.3	136.5	120.2	108.1	100.9	94.3	88.3	84.4	81.7
67.5°	170.8	146.7	128.9	111.7	95.8	83.3	77.0	71.2	65.9	62.0	59.2
65°	151.6	126.0	108.9	92.4	76.3	64.0	59.1	54.3	49.7	46.2	44.3
62.5°	141.0	114.2	96.4	81.9	67.4	53.1	48.1	43.2	38.3	34.5	32.9
60°	144.7	114.2	92.7	79.3	64.2	47.7	41.5	37.0	32.0	27.5	26.0
57.5°	167.4	134.2	101.9	96.6	81.4	57.1	59.4	69.1	61.8	42.6	40.4
55°	256.2	247.8	162.2	210.0	244.2	230.1	214.9	284.4	318.3	320.1	351.5
52.5°	509.0	569.1	546.7	572.7	714.0	771.2	763.6	888.0	952.4	943.7	977.4
50°	1071.8	1194.7	1346.2	1370.6	1607.4	1771.7	1811.3	1955.4	2115.3	2176.5	2245.4
47.5°	2091.7	2379.9	2526.1	2691.0	2963.6	3262.4	3493.8	3701.1	3925.8	4079.4	4264.8
45°	3407.2	3610.8	3865.3	4248.3	4664.4	5054.3	5420.5	5754.3	5974.4	6170.6	6379.0
42.5°	4489.5	4814.7	5241.5	5812.8	6404.9	6805.1	7106.3	7427.9	7771.8	8098.7	8400.1
40°	5597.7	5974.6	6651.7	7299.0	7740.9	8127.1	8539.5	8975.9	9425.5	9854.3	10280.8
37.5°	6785.4	7342.4	7935.4	8501.2	8968.7	9334.1	9899.2	10382.6	10833.1	11471.7	12057.4
35°	8049.2	8654.6	9164.1	9811.2	10333.9	10784.6	11375.9	11984.8	12374.7	13250.7	14009.0
32.5°	9306.6	10012.1	10691.4	11305.9	11954.5	12649.4	13225.0	14060.3	14695.7	15533.5	16357.2
30°	10616.7	11583.9	12431.8	13106.2	13989.8	14888.1	15695.6	16679.2	17615.9	18395.6	19268.6
27.5°	12269.8	13345.3	14379.3	15418.6	16362.4	17484.3	18769.7	19810.0	21009.2	21859.4	22772.4
25°	14023.8	15305.0	16680.2	18019.9	19258.2	20709.4	22166.6	23437.8	24680.6	25660.3	26636.0
22.5°	15931.1	17480.3	19117.1	20803.5	22477.5	24067.4	25631.7	27204.8	28637.4	29983.9	30921.9
20°	17868.0	19588.4	21576.1	23608.0	25535.5	27330.1	29209.8	31199.1	33019.5	34580.0	35735.6
17.5°	19615.4	21773.3	23959.5	26188.9	28362.7	30580.6	32912.8	35252.4	37407.8	39235.3	40769.5
15°	21189.5	23634.4	26165.4	28680.6	31180.5	33734.0	36459.2	38980.1	41395.8	43491.7	45285.4
12.5°	22741.7	25353.1	28066.2	30886.3	33849.9	36614.8	39389.4	42107.6	44639.3	47075.6	48872.5
10°	24115.5	26935.3	29839.9	32861.9	35931.3	38930.9	41855.4	44689.0	47176.4	49476.9	51650.7
7.5°	25234.9	28259.0	31359.0	34537.6	37696.6	40734.0	43712.5	46544.2	49069.0	51426.5	53649.5
5°	26200.4	29407.7	32607.2	35774.8	38953.4	42103.8	45111.0	47903.1	50532.8	52982.7	55210.5
2.5°	26988.3	30332.6	33574.4	36694.2	39860.0	43084.7	46167.8	48865.3	51614.2	54105.8	56298.7
0°	27579.5	30955.5	34093.7	37241.3	40446.4	43707.2	46808.3	49450.7	52249.2	54912.0	56997.4
-2.5°	27902.9	31080.6	34204.3	37362.2	40663.9	44018.1	47115.0	49963.1	52745.5	55241.6	57180.5
-5°	28015.2	31141.2	34253.7	37468.5	40741.6	44043.2	47129.4	49985.1	52657.0	54991.7	56760.1
-7.5°	27939.8	31035.1	34116.3	37299.7	40552.0	43814.1	46850.8	49582.3	52155.4	54366.9	56054.2
-10°	27712.2	30709.6	33792.0	36923.0	40182.2	43402.8	46378.8	48843.1	51299.8	53374.5	54970.0
-12.5°	27336.1	30205.9	33245.8	36307.4	39505.2	42601.0	45374.1	47827.8	50023.0	52124.5	53521.0
-15°	26802.4	29569.4	32475.6	35473.6	38503.2	41498.1	44202.0	46573.6	48607.3	50265.1	51735.8
-17.5°	26133.1	28802.9	31587.8	34460.6	37273.8	40123.1	42629.0	45005.6	46961.9	48437.6	49578.9
-20°	25309.1	27900.1	30563.4	33306.1	35920.0	38343.3	40758.9	42968.9	44902.6	46345.5	47442.4



REPORT NUMBER: P701746 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	24439.5	26883.9	29407.1	31880.2	34260.5	36538.6	38726.4	40754.7	42593.4	43957.7	45007.3
-25°	23450.0	25736.0	28069.0	30302.5	32476.5	34597.4	36580.4	38459.9	40065.0	41392.2	42366.7
-27.5°	22366.3	24494.9	26600.6	28677.8	30694.9	32528.3	34352.9	36049.4	37461.0	38681.6	39544.6
-30°	21182.1	23128.8	25102.2	27049.4	28794.2	30445.9	32066.9	33539.7	34833.5	35905.3	36679.3
-32.5°	19933.2	21711.7	23542.1	25302.8	26832.9	28323.0	29736.5	31027.6	32214.0	33161.0	33859.0
-35°	18641.9	20289.6	21933.4	23455.8	24881.9	26207.4	27425.4	28569.7	29552.6	30415.8	31100.1
-37.5°	17371.9	18856.0	20282.5	21611.8	22929.5	24145.2	25209.1	26213.1	27106.6	27826.6	28426.5
-40°	16126.3	17440.0	18654.5	19837.6	21015.1	22044.2	23010.3	23876.1	24666.9	25354.8	25887.7
-42.5°	14888.1	16019.3	17067.7	18132.4	19150.4	20042.8	20884.0	21634.2	22320.4	22936.8	23453.6
-45°	13645.4	14612.9	15545.9	16482.0	17327.3	18122.1	18853.3	19512.5	20125.5	20644.5	21068.2
-47.5°	12376.1	13234.4	14081.9	14893.1	15594.4	16281.2	16910.6	17502.7	18055.1	18521.9	18896.3
-50°	11164.1	11922.7	12681.7	13352.2	13941.8	14513.8	15046.5	15618.2	16129.5	16554.7	16864.1
-52.5°	10026.4	10712.3	11364.6	11913.9	12412.2	12858.8	13268.0	13799.1	14280.4	14698.0	14972.4
-55°	8990.1	9577.2	10136.5	10590.2	11006.4	11378.9	11750.3	12177.0	12565.6	12913.1	13142.3
-57.5°	8014.8	8512.4	8977.7	9359.7	9706.8	10018.2	10363.1	10719.9	11038.5	11312.8	11497.4
-60°	7090.1	7513.7	7899.6	8213.8	8502.3	8764.4	9092.6	9404.0	9679.5	9903.2	10041.0
-62.5°	6217.7	6597.6	6897.7	7150.4	7380.9	7601.7	7888.5	8157.5	8405.9	8604.3	8719.7
-65°	5419.1	5751.7	5974.7	6174.7	6356.4	6555.3	6799.2	7018.0	7212.1	7359.4	7459.8
-67.5°	4691.0	4954.2	5130.0	5288.9	5444.5	5614.8	5821.8	6012.8	6187.4	6308.8	6383.8
-70°	4012.7	4215.6	4358.2	4493.3	4623.2	4769.2	4938.8	5096.7	5242.4	5336.7	5396.5
-72.5°	3380.0	3534.6	3652.4	3768.7	3873.5	3998.7	4136.9	4266.5	4386.8	4457.6	4503.2
-75°	2789.7	2908.2	3004.7	3094.0	3175.9	3281.1	3393.1	3498.3	3596.2	3650.2	3685.2
-77.5°	2242.3	2333.0	2405.7	2472.2	2532.5	2616.0	2702.2	2783.1	2858.6	2906.8	2945.4
-80°	1778.7	1833.5	1878.2	1919.8	1958.2	2020.6	2083.8	2143.4	2199.2	2230.7	2255.5
-82.5°	1366.3	1399.6	1426.2	1449.5	1469.5	1513.0	1556.4	1597.4	1636.1	1656.4	1673.6
-85°	1029.9	1047.8	1062.9	1076.3	1088.1	1118.4	1148.3	1177.1	1204.9	1210.7	1214.9
-87.5°	798.5	808.2	817.5	826.4	835.1	857.5	879.8	901.9	923.9	927.7	931.2
-90°	9.3	8.8	8.4	7.9	7.4	7.0	6.5	6.1	5.6	5.1	4.7



REPORT NUMBER: P701746 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	809.1	813.3	810.6	807.8	810.6	813.3	809.1	805.0	800.8	796.6	778.1
87.5°	41.5	40.8	40.9	40.9	40.9	40.8	41.5	42.2	42.8	43.2	38.8
85°	78.8	74.1	70.6	66.9	70.6	74.1	78.8	83.3	87.5	91.2	85.8
82.5°	142.7	144.0	143.7	143.0	143.7	144.0	142.7	141.2	139.6	137.9	132.7
80°	187.2	192.2	193.8	195.0	193.8	192.2	187.2	182.0	176.7	171.5	166.6
77.5°	180.7	183.8	184.8	185.7	184.8	183.8	180.7	177.6	174.4	171.7	171.7
75°	146.5	147.4	146.9	146.7	146.9	147.4	146.5	145.9	145.6	146.4	151.3
72.5°	108.2	106.9	106.1	105.8	106.1	106.9	108.2	109.8	111.8	115.0	121.7
70°	79.2	77.2	75.5	74.3	75.5	77.2	79.2	81.7	84.4	88.3	94.3
67.5°	56.9	54.9	53.2	52.0	53.2	54.9	56.9	59.2	62.0	65.9	71.2
65°	42.7	41.5	40.2	39.0	40.2	41.5	42.7	44.3	46.2	49.7	54.3
62.5°	31.5	30.3	29.8	29.7	29.8	30.3	31.5	32.9	34.5	38.3	43.2
60°	24.4	22.9	22.4	22.3	22.4	22.9	24.4	26.0	27.5	32.0	37.0
57.5°	36.5	31.3	28.1	26.0	28.1	31.3	36.5	40.4	42.6	61.8	69.1
55°	368.3	369.4	376.7	384.4	376.7	369.4	368.3	351.5	320.1	318.3	284.4
52.5°	1003.1	999.8	990.7	973.0	990.7	999.8	1003.1	977.4	943.7	952.4	888.0
50°	2286.7	2254.5	2184.5	2085.4	2184.5	2254.5	2286.7	2245.4	2176.5	2115.3	1955.4
47.5°	4514.4	4701.1	4830.3	4887.5	4830.3	4701.1	4514.4	4264.8	4079.4	3925.8	3701.1
45°	6595.8	6706.6	6771.2	6822.5	6771.2	6706.6	6595.8	6379.0	6170.6	5974.4	5754.3
42.5°	8656.7	8832.2	8918.7	8904.1	8918.7	8832.2	8656.7	8400.1	8098.7	7771.8	7427.9
40°	10690.5	11058.0	11359.6	11576.3	11359.6	11058.0	10690.5	10280.8	9854.3	9425.5	8975.9
37.5°	12636.6	13183.8	13646.1	13981.0	13646.1	13183.8	12636.6	12057.4	11471.7	10833.1	10382.6
35°	14629.4	15112.0	15428.8	15566.9	15428.8	15112.0	14629.4	14009.0	13250.7	12374.7	11984.8
32.5°	16882.4	17150.6	17207.4	17351.4	17207.4	17150.6	16882.4	16357.2	15533.5	14695.7	14060.3
30°	19800.2	20078.9	20085.7	20266.8	20085.7	20078.9	19800.2	19268.6	18395.6	17615.9	16679.2
27.5°	23492.2	23961.5	24113.9	24274.1	24113.9	23961.5	23492.2	22772.4	21859.4	21009.2	19810.0
25°	27445.5	27883.1	28023.3	27969.5	28023.3	27883.1	27445.5	26636.0	25660.3	24680.6	23437.8
22.5°	31882.9	32450.1	32656.5	32552.4	32656.5	32450.1	31882.9	30921.9	29983.9	28637.4	27204.8
20°	36849.3	37668.0	38100.8	38296.0	38100.8	37668.0	36849.3	35735.6	34580.0	33019.5	31199.1
17.5°	42076.7	43283.2	43837.2	44000.6	43837.2	43283.2	42076.7	40769.5	39235.3	37407.8	35252.4
15°	46832.3	47885.8	48604.2	48973.5	48604.2	47885.8	46832.3	45285.4	43491.7	41395.8	38980.1
12.5°	50509.4	51852.1	52971.2	53571.3	52971.2	51852.1	50509.4	48872.5	47075.6	44639.3	42107.6
10°	53506.8	54862.5	55880.1	56373.5	55880.1	54862.5	53506.8	51650.7	49476.9	47176.4	44689.0
7.5°	55580.6	56840.5	57630.6	57953.7	57630.6	56840.5	55580.6	53649.5	51426.5	49069.0	46544.2
5°	56921.0	58125.7	58709.6	58919.4	58709.6	58125.7	56921.0	55210.5	52982.7	50532.8	47903.1
2.5°	57886.2	58839.4	59307.0	59337.2	59307.0	58839.4	57886.2	56298.7	54105.8	51614.2	48865.3
0°	58327.0	59184.9	59697.4	59688.1	59697.4	59184.9	58327.0	56997.4	54912.0	52249.2	49450.7
-2.5°	58348.4	59094.7	59458.9	59253.6	59458.9	59094.7	58348.4	57180.5	55241.6	52745.5	49963.1
-5°	57932.2	58662.7	58935.7	58872.9	58935.7	58662.7	57932.2	56760.1	54991.7	52657.0	49985.1
-7.5°	57185.1	57833.2	58111.9	58120.9	58111.9	57833.2	57185.1	56054.2	54366.9	52155.4	49582.3
-10°	56045.7	56587.3	56906.5	56815.4	56906.5	56587.3	56045.7	54970.0	53374.5	51299.8	48843.1
-12.5°	54538.5	55073.1	55343.7	55289.0	55343.7	55073.1	54538.5	53521.0	52124.5	50023.0	47827.8
-15°	52735.7	53243.7	53497.3	53472.9	53497.3	53243.7	52735.7	51735.8	50265.1	48607.3	46573.6
-17.5°	50503.5	51012.8	51272.4	51307.7	51272.4	51012.8	50503.5	49578.9	48437.6	46961.9	45005.6
-20°	48164.3	48613.4	48851.2	48854.7	48851.2	48613.4	48164.3	47442.4	46345.5	44902.6	42968.9



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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°	45739.4	46243.8	46526.0	46483.3	46526.0	46243.8	45739.4	45007.3	43957.7	42593.4	40754.7
-25°	43036.7	43542.1	43816.5	43805.6	43816.5	43542.1	43036.7	42366.7	41392.2	40065.0	38459.9
-27.5°	40151.3	40637.1	40901.9	40934.7	40901.9	40637.1	40151.3	39544.6	38681.6	37461.0	36049.4
-30°	37244.9	37723.8	37983.2	38004.5	37983.2	37723.8	37244.9	36679.3	35905.3	34833.5	33539.7
-32.5°	34397.0	34829.4	35069.0	35094.6	35069.0	34829.4	34397.0	33859.0	33161.0	32214.0	31027.6
-35°	31618.5	31998.4	32213.4	32283.2	32213.4	31998.4	31618.5	31100.1	30415.8	29552.6	28569.7
-37.5°	28914.2	29257.7	29465.4	29592.4	29465.4	29257.7	28914.2	28426.5	27826.6	27106.6	26213.1
-40°	26302.2	26603.2	26768.7	26771.7	26768.7	26603.2	26302.2	25887.7	25354.8	24666.9	23876.1
-42.5°	23836.5	24089.8	24216.4	24218.4	24216.4	24089.8	23836.5	23453.6	22936.8	22320.4	21634.2
-45°	21409.5	21657.3	21832.7	21943.6	21832.7	21657.3	21409.5	21068.2	20644.5	20125.5	19512.5
-47.5°	19181.8	19385.0	19524.3	19600.2	19524.3	19385.0	19181.8	18896.3	18521.9	18055.1	17502.7
-50°	17090.8	17253.2	17372.0	17442.4	17372.0	17253.2	17090.8	16864.1	16554.7	16129.5	15618.2
-52.5°	15158.5	15277.1	15319.7	15292.0	15319.7	15277.1	15158.5	14972.4	14698.0	14280.4	13799.1
-55°	13314.1	13432.3	13479.6	13462.9	13479.6	13432.3	13314.1	13142.3	12913.1	12565.6	12177.0
-57.5°	11642.7	11747.4	11831.3	11882.7	11831.3	11747.4	11642.7	11497.4	11312.8	11038.5	10719.9
-60°	10149.6	10227.1	10279.7	10300.5	10279.7	10227.1	10149.6	10041.0	9903.2	9679.5	9404.0
-62.5°	8800.8	8849.0	8886.5	8902.2	8886.5	8849.0	8800.8	8719.7	8604.3	8405.9	8157.5
-65°	7539.9	7598.7	7591.6	7550.4	7591.6	7598.7	7539.9	7459.8	7359.4	7212.1	7018.0
-67.5°	6440.5	6478.8	6511.7	6529.1	6511.7	6478.8	6440.5	6383.8	6308.8	6187.4	6012.8
-70°	5442.2	5473.6	5485.3	5481.7	5485.3	5473.6	5442.2	5396.5	5336.7	5242.4	5096.7
-72.5°	4537.5	4560.4	4564.9	4557.0	4564.9	4560.4	4537.5	4503.2	4457.6	4386.8	4266.5
-75°	3710.1	3725.3	3733.0	3732.5	3733.0	3725.3	3710.1	3685.2	3650.2	3596.2	3498.3
-77.5°	2977.7	3003.3	2992.4	2973.0	2992.4	3003.3	2977.7	2945.4	2906.8	2858.6	2783.1
-80°	2275.8	2291.5	2282.9	2269.2	2282.9	2291.5	2275.8	2255.5	2230.7	2199.2	2143.4
-82.5°	1688.5	1700.8	1686.8	1669.4	1686.8	1700.8	1688.5	1673.6	1656.4	1636.1	1597.4
-85°	1217.9	1219.7	1218.6	1216.3	1218.6	1219.7	1217.9	1214.9	1210.7	1204.9	1177.1
-87.5°	934.4	937.3	934.9	932.2	934.9	937.3	934.4	931.2	927.7	923.9	901.9
-90°	4.2	3.7	4.7	5.6	4.7	3.7	4.2	4.7	5.1	5.6	6.1



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	759.5	741.0	722.4	714.5	706.6	698.7	690.8	665.7	640.7	615.6	590.5
87.5°	34.4	30.1	26.0	26.0	26.1	26.1	26.0	24.1	22.3	20.6	19.0
85°	80.2	74.4	68.7	69.0	68.9	68.5	67.5	62.3	57.0	51.5	46.1
82.5°	127.2	121.3	115.4	113.3	111.3	109.5	107.5	102.2	96.6	90.7	84.6
80°	161.4	156.0	150.9	149.3	147.2	144.5	140.8	134.9	128.5	121.7	114.2
77.5°	171.1	169.9	169.1	171.8	173.5	174.2	173.0	168.3	161.8	154.5	145.4
75°	156.0	160.4	166.5	176.3	185.1	192.8	195.3	193.7	190.4	185.4	176.3
72.5°	128.6	135.9	146.6	162.0	177.6	190.1	200.3	207.8	212.2	213.2	206.2
70°	100.9	108.1	120.2	136.5	153.3	170.2	189.7	208.6	225.3	233.7	229.5
67.5°	77.0	83.3	95.8	111.7	128.9	146.7	170.8	195.6	217.5	235.9	243.2
65°	59.1	64.0	76.3	92.4	108.9	126.0	151.6	177.4	203.7	229.0	245.9
62.5°	48.1	53.1	67.4	81.9	96.4	114.2	141.0	168.1	192.9	217.6	243.5
60°	41.5	47.7	64.2	79.3	92.7	114.2	144.7	170.3	190.8	224.7	252.4
57.5°	59.4	57.1	81.4	96.6	101.9	134.2	167.4	188.2	209.2	253.9	277.3
55°	214.9	230.1	244.2	210.0	162.2	247.8	256.2	237.5	276.2	311.4	344.2
52.5°	763.6	771.2	714.0	572.7	546.7	569.1	509.0	485.8	460.8	500.1	479.4
50°	1811.3	1771.7	1607.4	1370.6	1346.2	1194.7	1071.8	938.7	940.1	883.3	759.0
47.5°	3493.8	3262.4	2963.6	2691.0	2526.1	2379.9	2091.7	1713.5	1688.8	1480.7	1292.5
45°	5420.5	5054.3	4664.4	4248.3	3865.3	3610.8	3407.2	3025.5	2657.4	2408.9	1980.6
42.5°	7106.3	6805.1	6404.9	5812.8	5241.5	4814.7	4489.5	4174.5	3794.1	3433.9	3007.8
40°	8539.5	8127.1	7740.9	7299.0	6651.7	5974.6	5597.7	5184.3	4794.9	4388.2	3956.6
37.5°	9899.2	9334.1	8968.7	8501.2	7935.4	7342.4	6785.4	6280.9	5736.5	5280.1	4789.5
35°	11375.9	10784.6	10333.9	9811.2	9164.1	8654.6	8049.2	7419.0	6806.8	6181.4	5621.6
32.5°	13225.0	12649.4	11954.5	11305.9	10691.4	10012.1	9306.6	8564.2	7914.7	7185.5	6473.9
30°	15695.6	14888.1	13989.8	13106.2	12431.8	11583.9	10616.7	9868.8	9089.6	8226.4	7352.8
27.5°	18769.7	17484.3	16362.4	15418.6	14379.3	13345.3	12269.8	11249.1	10324.2	9334.7	8317.5
25°	22166.6	20709.4	19258.2	18019.9	16680.2	15305.0	14023.8	12793.4	11639.7	10480.3	9232.1
22.5°	25631.7	24067.4	22477.5	20803.5	19117.1	17480.3	15931.1	14359.0	12956.8	11586.3	10206.9
20°	29209.8	27330.1	25535.5	23608.0	21576.1	19588.4	17868.0	16011.3	14301.1	12708.4	11173.9
17.5°	32912.8	30580.6	28362.7	26188.9	23959.5	21773.3	19615.4	17566.5	15632.0	13810.4	12110.0
15°	36459.2	33734.0	31180.5	28680.6	26165.4	23634.4	21189.5	18974.3	16942.9	14931.8	13030.1
12.5°	39389.4	36614.8	33849.9	30886.3	28066.2	25353.1	22741.7	20326.7	18112.4	15889.5	13806.5
10°	41855.4	38930.9	35931.3	32861.9	29839.9	26935.3	24115.5	21426.4	18956.7	16666.4	14500.6
7.5°	43712.5	40734.0	37696.6	34537.6	31359.0	28259.0	25234.9	22363.3	19708.3	17322.9	15108.8
5°	45111.0	42103.8	38953.4	35774.8	32607.2	29407.7	26200.4	23172.1	20355.1	17861.1	15627.4
2.5°	46167.8	43084.7	39860.0	36694.2	33574.4	30332.6	26988.3	23829.5	20959.0	18345.2	15967.7
0°	46808.3	43707.2	40446.4	37241.3	34093.7	30955.5	27579.5	24315.0	21470.1	18738.5	16214.9
-2.5°	47115.0	44018.1	40663.9	37362.2	34204.3	31080.6	27902.9	24733.5	21792.5	19111.6	16559.1
-5°	47129.4	44043.2	40741.6	37468.5	34253.7	31141.2	28015.2	24949.6	22009.7	19355.8	16798.4
-7.5°	46850.8	43814.1	40552.0	37299.7	34116.3	31035.1	27939.8	24983.4	22139.3	19447.2	16917.6
-10°	46378.8	43402.8	40182.2	36923.0	33792.0	30709.6	27712.2	24890.8	22108.8	19419.9	16935.0
-12.5°	45374.1	42601.0	39505.2	36307.4	33245.8	30205.9	27336.1	24654.9	21912.4	19276.7	16852.4
-15°	44202.0	41498.1	38503.2	35473.6	32475.6	29569.4	26802.4	24177.4	21512.1	19010.9	16671.6
-17.5°	42629.0	40123.1	37273.8	34460.6	31587.8	28802.9	26133.1	23570.9	21050.1	18629.1	16337.5
-20°	40758.9	38343.3	35920.0	33306.1	30563.4	27900.1	25309.1	22891.3	20498.6	18142.7	15941.5



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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°	38726.4	36538.6	34260.5	31880.2	29407.1	26883.9	24439.5	22120.8	19840.5	17523.1	15465.0
-25°	36580.4	34597.4	32476.5	30302.5	28069.0	25736.0	23450.0	21238.3	19031.1	16862.2	14919.7
-27.5°	34352.9	32528.3	30694.9	28677.8	26600.6	24494.9	22366.3	20255.7	18139.4	16189.2	14349.9
-30°	32066.9	30445.9	28794.2	27049.4	25102.2	23128.8	21182.1	19225.8	17285.9	15447.2	13704.9
-32.5°	29736.5	28323.0	26832.9	25302.8	23542.1	21711.7	19933.2	18177.0	16379.1	14677.4	13069.9
-35°	27425.4	26207.4	24881.9	23455.8	21933.4	20289.6	18641.9	17043.4	15461.9	13862.8	12384.5
-37.5°	25209.1	24145.2	22929.5	21611.8	20282.5	18856.0	17371.9	15915.6	14463.3	13049.4	11664.1
-40°	23010.3	22044.2	21015.1	19837.6	18654.5	17440.0	16126.3	14777.7	13475.9	12200.5	10912.5
-42.5°	20884.0	20042.8	19150.4	18132.4	17067.7	16019.3	14888.1	13670.1	12468.1	11309.7	10187.1
-45°	18853.3	18122.1	17327.3	16482.0	15545.9	14612.9	13645.4	12552.6	11458.4	10434.7	9424.1
-47.5°	16910.6	16281.2	15594.4	14893.1	14081.9	13234.4	12376.1	11428.2	10493.0	9554.3	8678.9
-50°	15046.5	14513.8	13941.8	13352.2	12681.7	11922.7	11164.1	10387.9	9544.8	8732.0	7931.6
-52.5°	13268.0	12858.8	12412.2	11913.9	11364.6	10712.3	10026.4	9369.3	8646.7	7931.2	7219.9
-55°	11750.3	11378.9	11006.4	10590.2	10136.5	9577.2	8990.1	8402.1	7808.4	7153.7	6537.2
-57.5°	10363.1	10018.2	9706.8	9359.7	8977.7	8512.4	8014.8	7498.0	6989.3	6424.7	5863.6
-60°	9092.6	8764.4	8502.3	8213.8	7899.6	7513.7	7090.1	6645.1	6179.7	5717.3	5242.6
-62.5°	7888.5	7601.7	7380.9	7150.4	6897.7	6597.6	6217.7	5840.8	5447.3	5037.1	4650.4
-65°	6799.2	6555.3	6356.4	6174.7	5974.7	5751.7	5419.1	5090.6	4764.6	4428.9	4083.5
-67.5°	5821.8	5614.8	5444.5	5288.9	5130.0	4954.2	4691.0	4404.5	4128.1	3853.8	3562.1
-70°	4938.8	4769.2	4623.2	4493.3	4358.2	4215.6	4012.7	3778.7	3539.5	3305.7	3061.9
-72.5°	4136.9	3998.7	3873.5	3768.7	3652.4	3534.6	3380.0	3187.7	2989.4	2785.5	2581.7
-75°	3393.1	3281.1	3175.9	3094.0	3004.7	2908.2	2789.7	2633.2	2474.7	2314.7	2151.7
-77.5°	2702.2	2616.0	2532.5	2472.2	2405.7	2333.0	2242.3	2118.1	2001.6	1882.6	1761.0
-80°	2083.8	2020.6	1958.2	1919.8	1878.2	1833.5	1778.7	1683.7	1586.4	1492.2	1402.2
-82.5°	1556.4	1513.0	1469.5	1449.5	1426.2	1399.6	1366.3	1297.4	1227.4	1156.7	1085.4
-85°	1148.3	1118.4	1088.1	1076.3	1062.9	1047.8	1029.9	984.7	938.8	892.1	844.7
-87.5°	879.8	857.5	835.1	826.4	817.5	808.2	798.5	768.2	737.8	707.4	676.9
-90°	6.5	7.0	7.4	7.9	8.4	8.8	9.3	9.8	10.2	10.7	11.1



REPORT NUMBER: P701746 (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°
90°	563.6	536.7	509.7	482.8	455.4	428.0	400.6	373.2	342.1	311.0	279.9
87.5°	20.4	21.6	22.7	23.7	23.2	22.7	22.2	21.6	22.5	23.2	23.5
85°	43.2	40.7	38.8	37.3	35.2	32.5	31.4	30.3	31.6	32.4	32.6
82.5°	78.2	71.4	65.0	59.9	58.3	55.8	52.3	48.0	45.6	42.5	41.7
80°	104.9	96.0	87.6	80.8	79.9	79.2	75.6	70.9	67.2	62.5	57.0
77.5°	133.1	120.9	108.7	99.8	97.1	94.6	92.6	91.7	88.8	82.6	75.3
75°	162.5	148.2	134.0	124.1	118.6	109.7	105.9	106.4	109.4	103.1	93.6
72.5°	192.8	177.7	160.9	151.3	148.3	140.4	127.6	122.7	130.8	128.0	114.2
70°	219.9	207.6	191.2	187.1	183.2	172.9	161.0	157.6	154.1	154.0	141.8
67.5°	244.7	233.7	219.5	225.3	224.8	215.4	197.1	198.8	197.5	181.7	170.3
65°	252.5	253.2	250.0	265.8	269.2	260.9	243.4	246.1	242.8	227.2	199.8
62.5°	260.4	267.5	279.9	308.7	317.5	310.9	295.3	305.4	292.9	274.1	240.7
60°	269.3	282.8	317.0	353.2	369.0	364.8	361.3	368.4	356.2	322.6	286.8
57.5°	298.9	304.8	365.9	407.7	425.4	423.4	435.3	442.1	422.5	383.7	334.7
55°	347.3	370.5	438.8	477.1	493.3	488.1	520.6	524.5	494.6	449.7	385.9
52.5°	442.5	495.6	554.5	575.2	577.8	578.8	623.1	613.1	580.2	517.9	450.4
50°	655.9	702.6	733.8	721.5	682.8	716.1	738.2	724.5	670.3	592.3	517.8
47.5°	1106.2	1086.9	1006.8	919.2	849.2	878.0	891.0	847.4	765.0	679.3	586.6
45°	1799.8	1639.6	1423.9	1236.4	1087.6	1104.0	1070.9	980.3	887.3	773.3	656.8
42.5°	2554.1	2312.4	2037.8	1595.6	1455.1	1367.2	1270.7	1159.0	1017.0	870.4	736.2
40°	3439.7	3023.6	2705.8	2229.0	1846.8	1654.7	1527.8	1357.7	1152.8	976.1	822.6
37.5°	4276.8	3767.3	3369.2	2826.6	2278.7	2018.6	1806.5	1570.4	1298.1	1094.2	910.2
35°	5050.4	4489.7	3935.1	3365.8	2793.3	2383.7	2101.2	1807.7	1467.3	1211.3	998.6
32.5°	5807.2	5155.7	4511.4	3874.1	3266.2	2749.2	2421.9	2016.7	1629.6	1327.0	1087.8
30°	6585.5	5825.2	5085.2	4366.0	3706.7	3156.4	2711.2	2212.5	1784.8	1441.1	1178.9
27.5°	7366.8	6485.9	5660.6	4872.7	4143.9	3529.3	2932.3	2395.1	1932.6	1560.4	1274.0
25°	8167.7	7182.4	6254.5	5379.1	4563.2	3816.3	3144.3	2565.2	2083.4	1686.1	1366.5
22.5°	8981.8	7888.6	6832.6	5872.6	4911.3	4105.4	3366.5	2743.9	2228.9	1804.9	1456.2
20°	9748.1	8584.4	7373.5	6268.8	5255.1	4404.7	3602.9	2912.5	2363.0	1916.8	1542.7
17.5°	10486.9	9210.2	7853.9	6656.6	5588.2	4679.7	3833.3	3070.4	2485.7	2021.5	1625.7
15°	11251.6	9758.5	8318.7	7013.3	5892.1	4930.4	4055.3	3216.8	2597.2	2119.0	1695.4
12.5°	11936.1	10291.3	8752.7	7337.1	6166.0	5156.6	4266.3	3351.0	2697.6	2204.9	1749.9
10°	12545.4	10799.3	9150.7	7626.3	6409.3	5358.6	4463.6	3487.8	2815.7	2282.0	1800.5
7.5°	13078.6	11272.8	9507.5	7879.5	6623.9	5526.4	4613.2	3643.7	2932.5	2353.5	1846.6
5°	13517.1	11664.5	9850.3	8171.8	6822.4	5662.6	4727.7	3786.3	3042.7	2418.5	1887.6
2.5°	13803.2	11931.4	10157.3	8443.4	6992.4	5777.8	4814.7	3914.6	3144.1	2476.1	1922.8
0°	14014.4	12127.8	10406.4	8675.7	7130.7	5869.8	4878.2	4027.7	3234.8	2525.5	1951.7
-2.5°	14286.5	12320.1	10561.9	8859.8	7324.0	6033.0	4986.1	4099.3	3298.4	2587.1	1999.6
-5°	14474.0	12446.0	10663.1	8998.2	7480.2	6167.3	5072.4	4154.4	3349.3	2639.1	2040.2
-7.5°	14605.1	12547.7	10730.7	9090.1	7597.5	6269.0	5134.9	4193.1	3387.7	2681.1	2072.8
-10°	14655.4	12602.5	10767.2	9117.3	7634.5	6317.0	5171.9	4215.0	3413.8	2712.7	2097.3
-12.5°	14615.5	12576.3	10739.2	9095.1	7623.1	6315.9	5185.8	4232.2	3428.5	2733.4	2113.1
-15°	14484.7	12466.1	10644.6	9022.9	7570.1	6283.6	5176.6	4236.4	3434.5	2740.5	2120.0
-17.5°	14251.6	12269.5	10482.0	8900.3	7474.8	6219.8	5144.2	4220.6	3425.5	2732.7	2115.1
-20°	13922.2	12011.4	10260.1	8727.2	7336.9	6124.5	5088.6	4184.6	3401.0	2712.7	2099.5



REPORT NUMBER: P701746 (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°	13528.9	11718.0	10047.0	8532.3	7175.8	5997.8	5009.9	4127.9	3360.8	2680.3	2075.6
-25°	13068.5	11374.4	9777.8	8319.9	7007.2	5886.0	4919.5	4050.4	3304.7	2635.4	2043.2
-27.5°	12612.2	10992.4	9447.5	8065.4	6827.6	5750.1	4816.4	3974.2	3236.9	2577.8	2002.6
-30°	12134.1	10576.6	9112.8	7786.6	6612.5	5595.7	4688.9	3880.1	3162.0	2517.3	1953.6
-32.5°	11576.2	10095.3	8748.6	7516.1	6397.8	5409.2	4537.7	3767.2	3071.8	2452.5	1906.9
-35°	10963.6	9611.1	8349.0	7207.9	6158.7	5219.8	4376.0	3635.5	2966.4	2378.3	1856.3
-37.5°	10312.4	9096.0	7974.7	6881.6	5879.4	5003.2	4213.2	3498.8	2846.0	2294.7	1798.8
-40°	9705.9	8566.1	7525.7	6536.0	5601.5	4759.9	4030.1	3354.9	2733.1	2201.9	1734.5
-42.5°	9058.0	8035.2	7067.1	6140.9	5307.1	4535.5	3830.6	3197.4	2621.2	2113.9	1663.4
-45°	8437.2	7482.6	6587.4	5768.7	4993.7	4290.4	3641.3	3030.7	2495.9	2024.8	1590.8
-47.5°	7790.9	6932.6	6122.2	5370.0	4698.3	4035.8	3437.8	2873.6	2357.6	1928.2	1518.2
-50°	7165.9	6387.3	5660.1	4992.0	4367.7	3796.9	3225.9	2700.7	2233.5	1820.1	1438.3
-52.5°	6535.7	5857.4	5211.6	4607.3	4060.8	3543.8	3013.4	2516.4	2098.6	1710.9	1351.5
-55°	5921.7	5347.3	4768.7	4238.8	3745.2	3276.0	2783.9	2350.4	1953.4	1596.8	1260.0
-57.5°	5348.6	4838.6	4346.1	3871.8	3420.8	2986.5	2566.9	2172.9	1809.4	1475.2	1178.6
-60°	4783.0	4360.3	3924.0	3499.6	3087.2	2707.9	2352.9	1990.1	1660.0	1351.1	1089.4
-62.5°	4263.1	3881.6	3505.8	3119.5	2769.6	2445.3	2131.0	1809.4	1502.6	1238.5	994.5
-65°	3756.4	3421.0	3081.4	2770.8	2467.6	2180.1	1912.0	1620.0	1359.2	1120.4	901.8
-67.5°	3261.6	2982.6	2705.4	2427.6	2175.0	1928.9	1683.3	1444.8	1215.2	997.2	822.2
-70°	2813.6	2565.8	2338.4	2117.4	1894.5	1676.6	1478.9	1272.3	1065.6	898.4	739.5
-72.5°	2386.8	2193.3	2001.9	1809.7	1631.2	1453.1	1275.8	1102.4	946.5	797.0	654.1
-75°	1986.1	1836.4	1690.0	1540.0	1382.5	1227.7	1094.7	962.2	824.6	692.5	582.1
-77.5°	1637.6	1514.3	1391.6	1277.5	1158.0	1042.0	929.7	818.5	707.1	607.9	513.7
-80°	1312.9	1223.5	1134.2	1043.5	946.7	853.3	774.5	695.2	607.5	523.5	443.7
-82.5°	1015.8	954.9	896.1	835.8	770.3	705.3	641.1	577.0	505.8	437.5	384.9
-85°	798.6	751.8	704.3	656.2	605.8	555.9	519.1	481.8	437.6	393.8	350.5
-87.5°	647.0	616.9	586.6	556.0	524.2	492.3	460.2	427.9	390.2	352.7	315.4
-90°	11.6	12.1	12.5	13.0	13.0	13.0	13.0	13.0	13.5	14.0	14.4



REPORT NUMBER: P701746 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	248.8	206.1	163.4	120.7	78.0	45.5	13.0
87.5°	23.5	22.8	21.8	20.5	18.9	16.5	13.0
85°	32.2	30.8	28.8	26.2	23.0	19.1	13.0
82.5°	40.9	38.7	35.7	31.8	27.0	21.7	13.0
80°	50.5	46.7	42.6	37.4	31.1	24.3	13.0
77.5°	67.3	57.8	49.5	43.0	35.2	26.8	13.0
75°	84.3	75.0	58.1	48.6	39.3	29.4	13.0
72.5°	101.8	92.3	74.2	54.1	43.4	31.9	13.0
70°	121.2	110.0	90.4	61.2	47.6	34.5	13.0
67.5°	150.9	127.9	106.7	74.9	51.7	37.0	13.0
65°	181.4	151.4	123.2	88.6	55.9	39.5	13.0
62.5°	212.8	180.6	139.7	102.2	60.2	41.9	13.0
60°	245.0	210.2	156.4	115.8	64.5	44.4	13.0
57.5°	289.4	240.3	181.8	129.3	74.3	46.8	13.0
55°	336.1	270.8	207.8	142.8	84.1	49.2	13.0
52.5°	383.7	303.5	233.8	156.2	93.8	51.5	13.0
50°	432.1	345.2	259.9	169.5	103.3	53.9	13.0
47.5°	482.8	387.1	286.0	184.3	112.6	56.1	13.0
45°	543.6	429.1	312.1	204.0	121.7	58.4	13.0
42.5°	604.8	471.2	338.1	223.4	130.6	60.5	13.0
40°	666.4	513.3	367.6	242.6	139.2	62.7	13.0
37.5°	728.1	555.3	400.4	261.3	147.6	64.7	13.0
35°	789.8	602.3	432.5	279.3	155.7	66.7	13.0
32.5°	854.7	651.3	464.1	296.7	163.6	68.7	13.0
30°	927.0	699.5	494.9	313.4	171.1	70.5	13.0
27.5°	998.4	746.6	522.9	329.4	178.3	72.3	13.0
25°	1068.6	792.6	549.4	344.6	185.2	74.0	13.0
22.5°	1137.3	835.1	574.5	359.0	191.7	75.7	13.0
20°	1204.2	870.4	598.2	372.4	197.8	77.2	13.0
17.5°	1256.7	903.0	620.2	385.0	203.5	78.6	13.0
15°	1297.5	932.9	640.7	396.6	208.7	79.9	13.0
12.5°	1333.5	960.0	659.3	407.2	213.6	81.1	13.0
10°	1364.8	984.2	676.2	416.8	217.9	82.2	13.0
7.5°	1391.4	1005.5	691.2	425.2	221.8	83.2	13.0
5°	1413.2	1023.7	704.3	432.6	225.1	84.1	13.0
2.5°	1430.4	1038.9	715.3	438.8	228.0	84.8	13.0
0°	1442.9	1051.0	724.2	443.8	230.3	85.4	13.0
-2.5°	1477.6	1070.6	736.0	450.5	233.8	87.1	13.0
-5°	1507.2	1086.8	745.6	456.0	236.8	88.6	13.0
-7.5°	1531.3	1099.6	752.9	460.1	239.2	90.0	13.0
-10°	1549.5	1108.6	757.7	462.9	241.0	91.2	13.0
-12.5°	1561.3	1113.8	760.0	464.3	242.3	92.3	13.0
-15°	1566.3	1115.0	759.7	464.4	242.9	93.2	13.0
-17.5°	1564.2	1112.2	756.8	463.0	242.9	94.0	13.0
-20°	1555.6	1105.1	751.3	460.1	242.4	94.5	13.0



REPORT NUMBER: P701746 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1541.9	1093.7	742.9	455.9	241.2	95.0	13.0
-25°	1522.2	1082.4	731.8	450.1	239.4	95.2	13.0
-27.5°	1496.4	1068.5	718.0	442.9	237.1	95.3	13.0
-30°	1464.7	1050.0	701.8	434.1	234.1	95.2	13.0
-32.5°	1426.9	1026.8	687.0	424.0	230.5	94.9	13.0
-35°	1391.7	998.9	669.3	412.3	226.4	94.5	13.0
-37.5°	1354.0	969.0	648.6	399.2	221.6	93.8	13.0
-40°	1310.3	940.2	625.0	384.6	216.3	93.0	13.0
-42.5°	1260.5	907.4	603.0	369.6	210.4	92.0	13.0
-45°	1204.7	870.7	583.3	354.7	204.0	90.9	13.0
-47.5°	1143.2	830.2	561.2	338.4	197.0	89.6	13.0
-50°	1087.3	785.9	536.9	326.8	189.5	88.1	13.0
-52.5°	1028.5	738.1	510.3	316.0	181.5	86.5	13.0
-55°	965.2	698.6	481.6	304.1	173.0	84.6	13.0
-57.5°	897.5	658.6	450.8	291.0	164.0	82.7	13.0
-60°	827.7	615.8	418.7	276.8	154.6	80.6	13.0
-62.5°	770.8	570.5	396.5	261.5	149.7	78.3	13.0
-65°	710.6	522.7	372.7	245.3	144.5	75.9	13.0
-67.5°	647.4	480.3	347.4	228.1	139.0	73.4	13.0
-70°	581.4	443.8	320.7	210.0	133.1	70.7	13.0
-72.5°	528.9	405.5	292.8	198.8	127.0	67.9	13.0
-75°	476.7	365.5	263.8	188.8	120.7	65.0	13.0
-77.5°	422.5	324.1	246.1	178.4	114.1	62.0	13.0
-80°	366.7	295.8	230.6	167.6	107.2	58.8	13.0
-82.5°	335.7	274.2	214.4	156.4	100.2	55.6	13.0
-85°	307.4	252.0	197.8	144.8	92.9	52.3	13.0
-87.5°	278.4	229.3	180.8	132.9	85.5	49.0	13.0
-90°	14.9	14.9	14.9	14.9	14.9	14.0	13.0

(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

