

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: P731709 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-57-70-5S-VHE**

Issue Date: 11/16/2023

Test Information

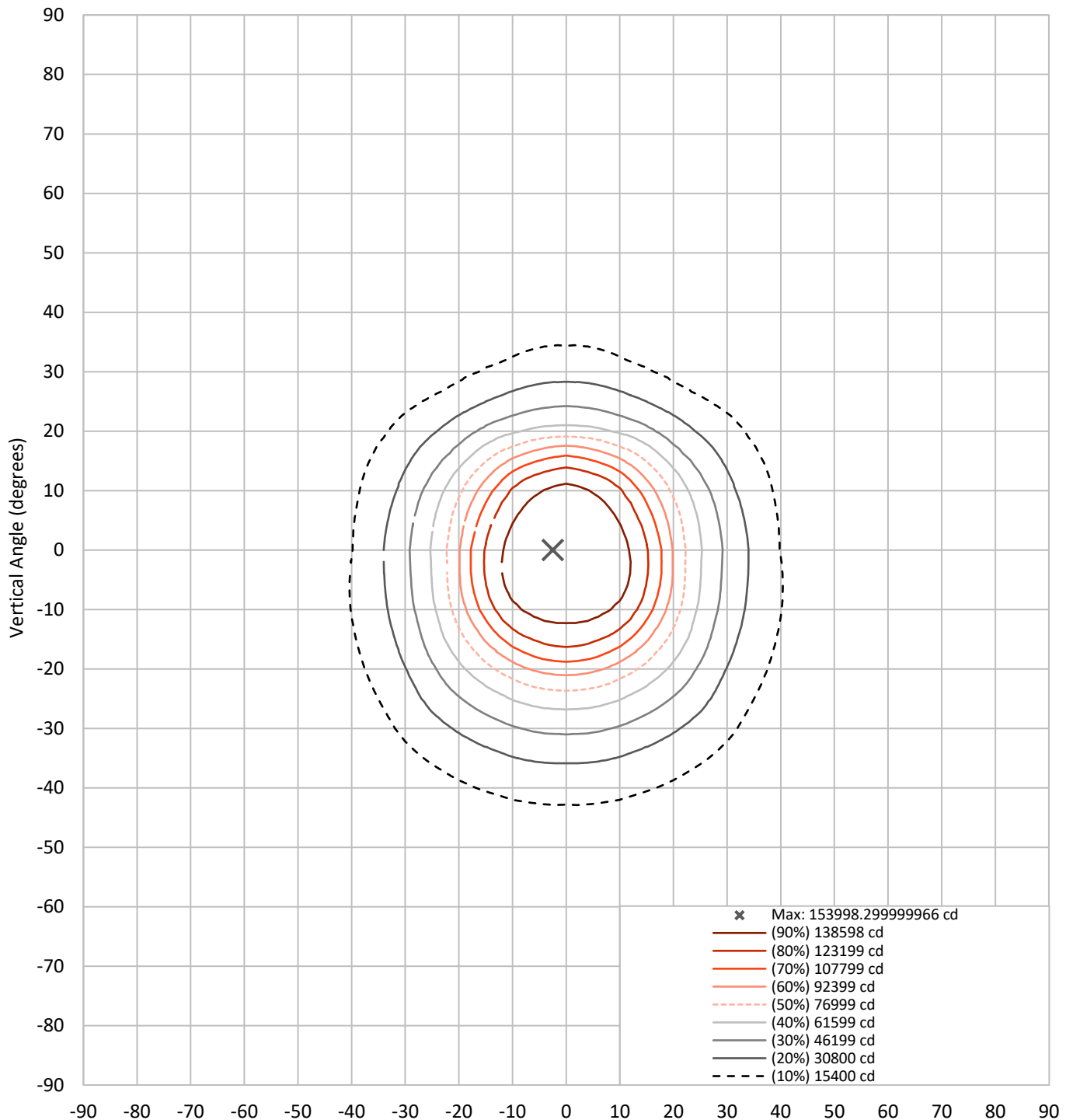
Test Method: LM-79-08
Report Number: P731709 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-57-70-5S-VHE
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:	100273.7 lumens	Max Intensity:	153998.3 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	143.8 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:	55059.8 lumens	Field Lumens:	92139.3 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%
Input Watts (W):	697.2		
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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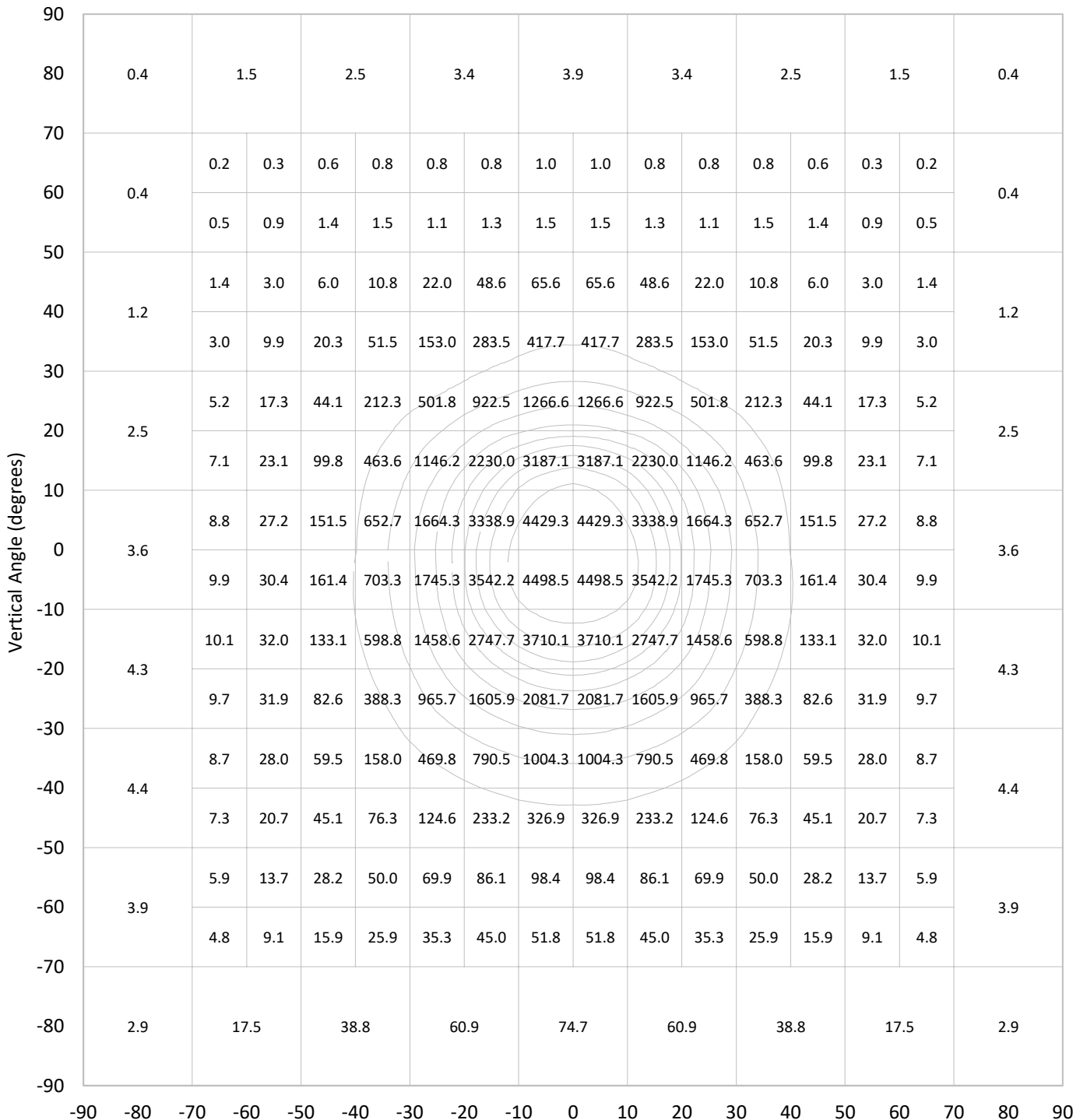
Iso-Candela Plot





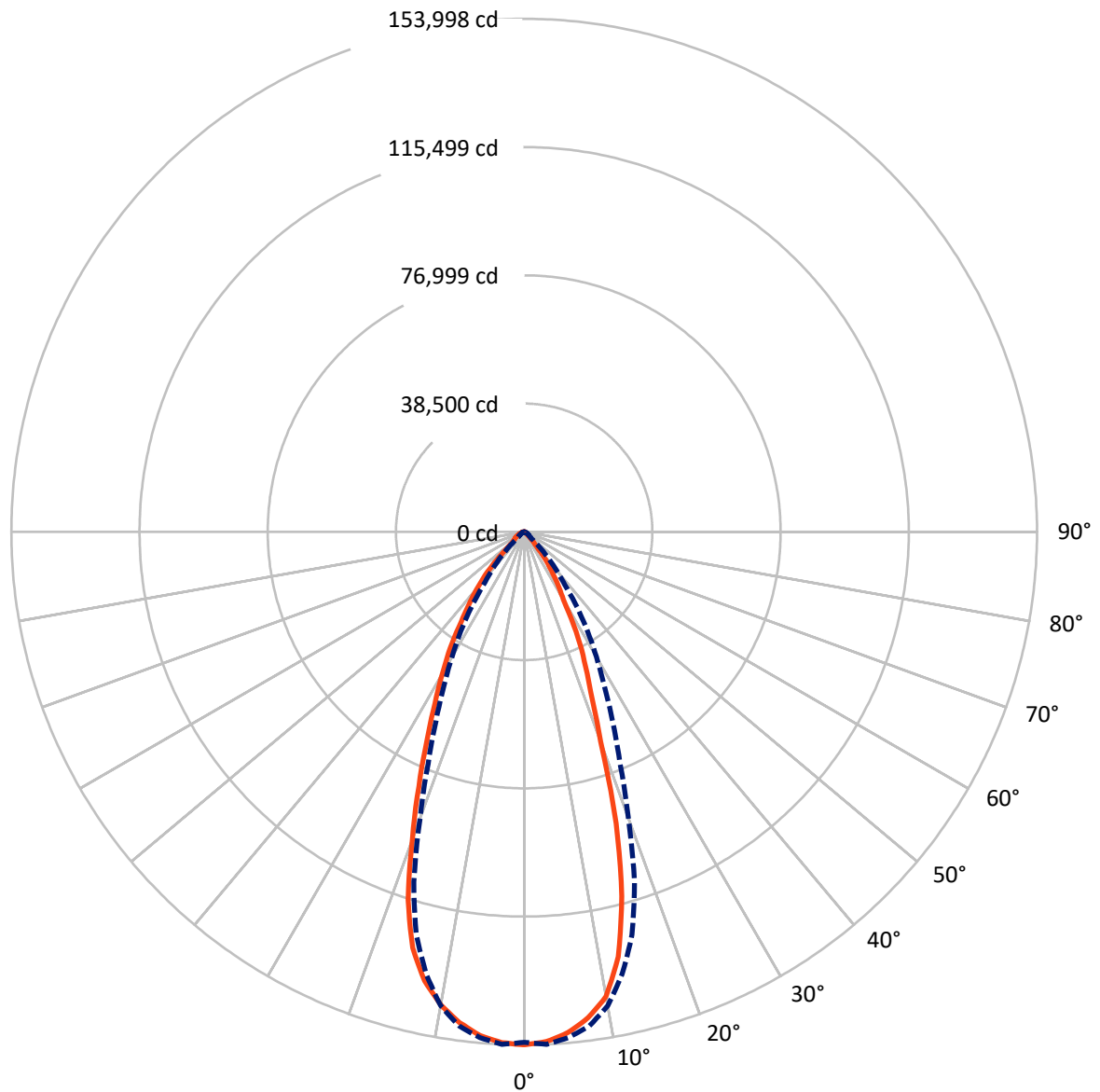
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Lumen Table



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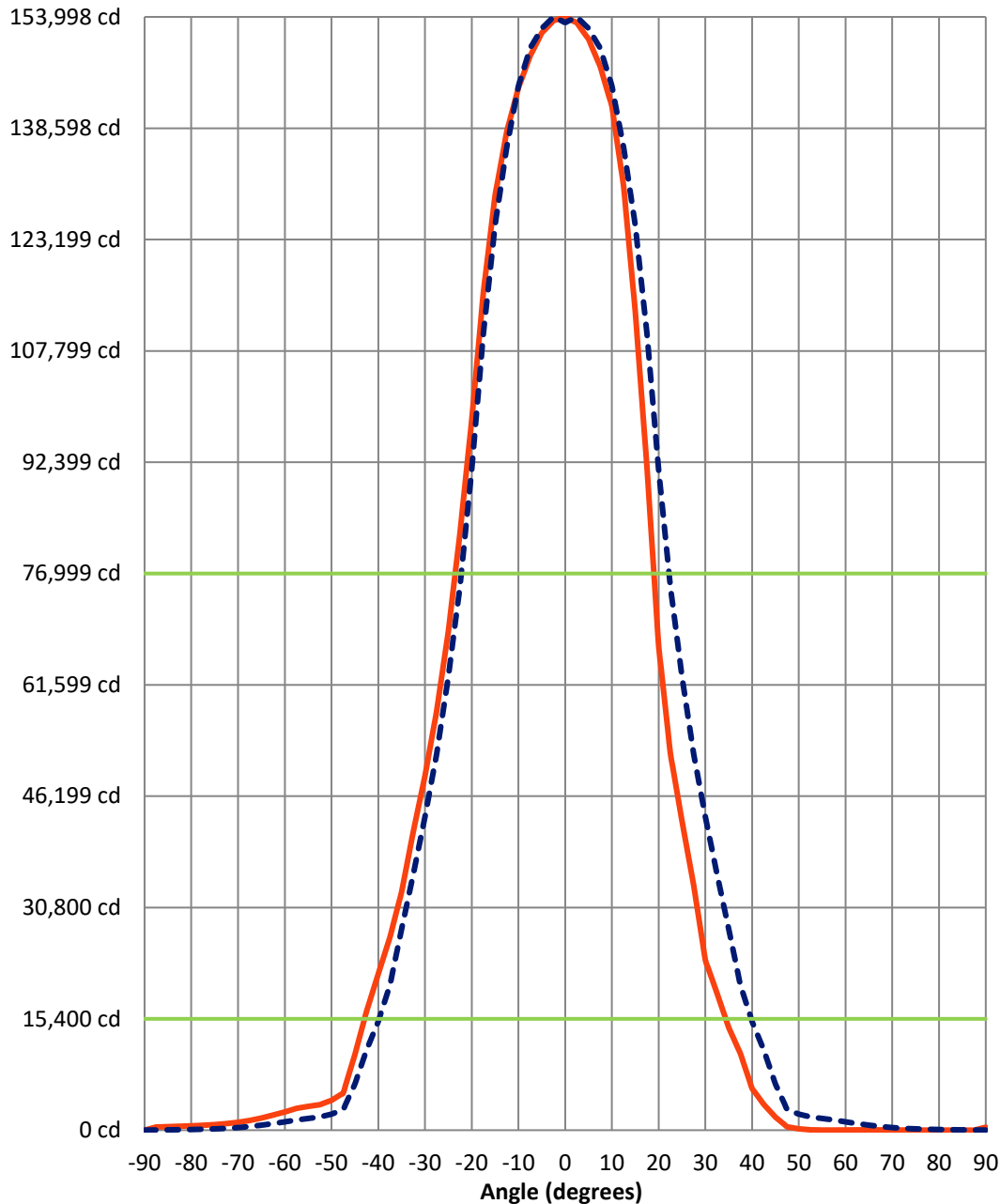
Luminous Intensity Polar Plot



— 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: 55059.8
 Efficiency: 54.9%

Field:
 H Angle: 79.6°
 V Angle: 77.3°
 Lumens: 92139.3
 Efficiency: 91.9%

Spill:
 Lumens: 8134.4
 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°	13.3	26.0	38.7	64.1	89.6	113.2	136.8	156.2	175.5	189.4	203.3
87.5°	13.3	12.4	11.2	11.3	11.3	11.4	11.5	11.0	10.5	10.4	10.2
85°	13.3	12.6	11.5	11.7	11.7	11.9	12.1	11.8	11.4	11.1	10.7
82.5°	13.3	12.9	11.9	12.1	12.2	12.5	12.8	12.5	12.2	11.8	11.3
80°	13.3	13.2	12.2	12.5	12.6	13.0	13.4	13.2	13.0	12.6	11.9
77.5°	13.3	13.5	12.6	12.9	13.0	13.6	14.0	14.0	13.9	13.3	12.5
75°	13.3	13.7	12.9	13.3	13.5	14.4	14.7	14.7	14.7	14.0	13.1
72.5°	13.3	14.0	13.3	13.7	14.4	15.2	15.4	15.5	15.3	14.5	13.7
70°	13.3	14.3	13.7	14.1	15.3	16.1	16.3	16.4	16.0	15.1	14.8
67.5°	13.3	14.6	14.1	14.9	16.1	17.0	17.3	17.4	16.8	16.5	16.2
65°	13.3	14.9	14.5	15.6	17.0	18.0	18.4	18.4	18.5	18.0	18.0
62.5°	13.3	15.2	15.0	16.3	17.9	19.0	19.5	20.0	20.2	19.9	20.9
60°	13.3	15.4	15.5	17.0	18.8	20.0	20.7	21.9	22.1	24.0	24.3
57.5°	13.3	15.7	16.3	17.7	20.0	21.0	23.0	23.9	27.2	29.1	30.9
55°	13.3	16.0	17.1	18.4	21.3	22.1	25.6	26.5	33.7	36.0	39.8
52.5°	13.3	16.3	18.0	19.1	22.7	23.5	28.5	33.3	41.0	46.9	49.8
50°	13.3	16.6	18.9	19.8	24.2	26.8	31.6	40.7	49.8	58.5	64.4
47.5°	13.3	16.9	19.9	20.6	25.8	30.3	35.5	48.3	61.2	70.8	80.7
45°	13.3	17.2	20.9	22.0	27.6	34.0	42.2	56.0	72.7	86.5	97.9
42.5°	13.3	17.5	22.0	23.3	29.4	37.9	48.9	65.4	84.6	103.0	123.9
40°	13.3	17.8	23.1	25.3	31.9	42.0	56.0	76.1	97.8	119.9	152.9
37.5°	13.3	18.1	24.2	27.7	35.1	46.2	63.7	87.0	113.2	140.3	183.4
35°	13.3	18.4	25.4	30.2	38.4	51.8	71.5	98.0	129.0	167.8	218.7
32.5°	13.3	18.7	26.7	32.8	41.6	57.9	79.9	109.5	145.2	196.0	258.8
30°	13.3	19.0	27.9	35.3	44.9	64.1	89.6	121.8	161.7	224.5	298.3
27.5°	13.3	19.3	29.2	37.9	49.3	70.1	99.1	135.1	180.2	253.4	336.9
25°	13.3	19.6	30.5	40.6	53.8	76.1	108.4	148.0	201.6	284.5	374.8
22.5°	13.3	19.8	31.7	43.2	58.2	82.2	117.4	160.3	221.9	311.2	414.8
20°	13.3	20.1	33.0	45.9	62.5	88.7	126.1	171.9	240.9	336.5	448.2
17.5°	13.3	20.3	34.3	48.5	66.7	95.1	134.8	183.0	258.6	360.3	479.8
15°	13.3	20.6	35.6	51.1	70.8	101.1	143.2	193.8	275.0	382.4	509.7
12.5°	13.3	20.8	36.8	53.7	74.7	106.8	151.2	204.4	291.4	402.7	537.8
10°	13.3	21.0	38.1	56.2	78.5	112.3	158.6	214.4	307.8	426.8	567.5
7.5°	13.3	21.3	39.2	58.7	82.2	117.4	165.5	223.7	322.9	450.2	603.1
5°	13.3	21.5	40.3	61.0	85.6	122.2	171.8	232.2	336.6	471.7	636.5
2.5°	13.3	21.6	41.4	63.3	88.9	126.6	177.5	240.0	348.8	491.2	667.2
0°	13.3	21.8	42.4	65.4	92.0	130.7	182.7	246.9	359.4	508.3	694.7
-2.5°	13.3	22.6	44.2	68.3	96.3	136.7	190.5	256.9	371.7	522.7	708.9
-5°	13.3	23.5	45.9	71.0	100.3	142.3	197.7	266.0	382.1	534.4	719.3
-7.5°	13.3	24.2	47.6	73.6	104.1	147.4	204.1	274.1	390.6	543.2	726.1
-10°	13.3	25.0	49.1	76.0	107.7	152.1	209.9	281.1	397.1	549.1	729.4
-12.5°	13.3	25.8	50.6	78.3	110.9	156.2	214.9	287.1	401.5	552.2	734.5
-15°	13.3	26.5	51.9	80.4	113.9	159.9	219.1	291.8	403.9	553.1	737.1
-17.5°	13.3	27.1	53.1	82.3	116.6	163.0	222.5	296.0	404.5	550.8	734.1
-20°	13.3	27.8	54.3	84.0	118.9	165.5	225.6	299.4	403.0	545.1	725.0



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 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-VHE

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	13.3	28.4	55.3	85.6	121.0	167.5	228.7	301.8	399.4	536.1	710.4
-25°	13.3	28.9	56.2	86.9	122.6	169.9	230.9	303.1	393.8	523.7	697.8
-27.5°	13.3	29.4	56.9	88.1	124.0	172.1	232.2	303.4	386.0	515.4	688.4
-30°	13.3	29.9	57.6	89.1	125.1	173.7	232.7	302.5	382.7	508.6	673.9
-32.5°	13.3	30.3	58.1	89.8	127.2	174.8	232.2	301.8	382.4	498.5	653.8
-35°	13.3	30.7	58.5	90.3	129.0	175.4	232.3	300.6	380.3	484.8	628.1
-37.5°	13.3	31.0	58.8	90.7	130.4	176.0	232.2	298.8	376.2	467.6	604.8
-40°	13.3	31.3	58.9	90.8	131.4	177.3	231.5	295.7	370.3	457.1	582.3
-42.5°	13.3	31.5	58.9	91.0	132.4	178.2	230.2	291.3	364.4	448.5	555.9
-45°	13.3	31.6	58.8	91.5	133.1	178.6	228.2	287.1	357.9	437.4	528.3
-47.5°	13.3	31.7	58.5	91.8	133.3	178.6	225.4	283.7	350.0	424.0	512.8
-50°	13.3	31.8	58.1	91.8	133.2	178.1	224.4	279.3	339.8	412.0	494.4
-52.5°	13.3	31.8	57.6	91.7	132.5	177.3	223.2	273.9	331.2	397.6	472.3
-55°	13.3	31.7	57.0	91.2	131.5	175.7	221.3	268.0	322.6	381.2	450.1
-57.5°	13.3	31.6	56.2	90.6	130.0	173.5	218.9	264.9	313.0	368.2	425.9
-60°	13.3	31.4	55.3	89.6	128.2	170.9	215.8	260.7	303.3	355.4	402.8
-62.5°	13.3	31.2	54.6	88.5	126.3	167.7	211.8	255.6	297.1	340.6	384.4
-65°	13.3	30.9	53.7	87.0	124.2	164.1	207.1	249.6	290.0	329.1	364.8
-67.5°	13.3	30.6	52.7	85.4	121.7	160.2	201.9	242.4	282.3	318.2	349.6
-70°	13.3	30.3	51.5	83.5	118.8	155.9	196.1	234.6	272.7	306.6	335.9
-72.5°	13.3	29.9	50.3	81.7	115.7	151.1	189.2	226.2	262.4	293.4	321.3
-75°	13.3	29.4	48.9	79.7	112.2	145.7	181.7	216.4	251.5	279.8	305.9
-77.5°	13.3	28.9	47.4	77.6	109.0	140.0	173.5	205.6	238.4	265.0	290.0
-80°	13.3	28.4	45.8	75.2	105.6	134.8	164.8	194.4	224.6	248.2	271.4
-82.5°	13.3	27.9	44.1	72.7	101.9	129.8	158.0	183.7	210.3	231.0	251.6
-85°	13.3	27.3	42.4	70.0	98.0	124.5	151.3	174.9	198.9	216.3	233.5
-87.5°	13.3	26.6	40.6	67.2	93.9	119.0	144.2	165.7	187.4	202.9	218.5
-90°	13.3	12.1	10.9	10.9	10.9	10.9	10.9	10.3	9.7	9.7	9.7



REPORT NUMBER: P731709 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	211.8	220.3	228.2	236.0	245.7	255.4	265.7	275.9	286.8	297.7	308.0
87.5°	9.7	9.1	9.1	9.2	8.6	8.1	7.7	7.3	6.7	6.1	6.0
85°	10.2	9.7	9.8	9.7	9.2	8.9	8.3	7.8	7.3	6.8	6.8
82.5°	11.0	10.9	10.5	9.8	9.6	9.6	9.2	8.6	8.1	7.7	7.5
80°	11.8	12.1	11.2	10.2	10.0	9.8	9.2	8.6	8.5	8.5	8.1
77.5°	12.3	12.2	11.5	10.9	10.5	10.1	9.7	9.3	9.0	8.6	8.5
75°	12.7	12.3	11.9	11.2	10.8	10.7	10.6	10.2	10.0	10.0	10.0
72.5°	13.4	13.1	12.4	11.5	11.2	11.4	11.5	11.1	11.4	11.9	11.9
70°	14.4	13.9	13.1	12.3	11.9	12.3	12.9	13.7	14.7	14.8	16.0
67.5°	15.6	15.1	14.0	13.3	13.0	13.8	14.5	17.5	20.3	21.9	23.6
65°	17.4	16.5	15.4	15.2	14.5	17.5	20.0	23.1	28.9	31.7	31.5
62.5°	19.5	19.7	18.2	18.6	21.0	23.7	28.0	34.7	41.5	44.1	41.7
60°	24.7	24.0	24.1	25.8	28.4	31.6	38.3	46.5	54.3	58.5	52.2
57.5°	31.6	31.4	33.3	34.3	37.9	38.9	47.9	58.1	64.8	69.8	61.5
55°	41.4	41.8	45.3	46.4	49.0	48.9	56.7	66.3	73.1	75.4	66.8
52.5°	55.0	55.6	62.0	62.9	62.1	62.9	65.8	76.0	81.7	81.9	74.3
50°	69.8	77.6	81.6	84.2	79.5	82.4	79.8	91.2	99.8	99.0	101.8
47.5°	91.9	102.3	108.1	112.3	108.8	117.8	115.9	133.4	139.4	172.7	177.9
45°	118.1	134.7	142.4	151.8	162.2	173.1	201.2	201.3	280.0	310.9	392.5
42.5°	147.4	172.3	193.7	197.5	249.7	280.1	318.5	397.2	474.0	570.5	607.2
40°	186.3	213.9	257.5	306.8	364.7	430.8	502.2	597.8	698.7	748.6	754.9
37.5°	229.4	281.4	342.1	431.5	520.4	607.2	697.7	791.3	863.9	882.4	950.1
35°	275.7	351.9	465.3	567.9	671.4	791.2	871.8	958.0	1001.6	1078.0	1208.3
32.5°	334.0	424.3	565.3	698.7	813.7	944.1	1021.3	1087.3	1189.7	1322.1	1610.1
30°	394.8	506.0	648.5	802.5	944.2	1053.6	1141.4	1224.2	1384.6	1704.7	2691.9
27.5°	445.5	576.1	726.0	897.7	1059.4	1159.2	1258.7	1403.3	1689.9	2349.4	4221.7
25°	490.9	632.7	802.0	1001.3	1159.5	1269.4	1399.0	1603.1	2052.9	3843.0	6242.3
22.5°	535.3	688.5	888.7	1110.2	1261.2	1377.8	1574.1	1942.8	2885.2	5401.8	8285.5
20°	581.0	759.8	982.9	1211.3	1358.5	1473.8	1727.0	2272.6	4201.8	7079.9	10088.4
17.5°	629.0	831.8	1074.5	1283.3	1421.0	1574.6	1888.4	2543.1	5300.9	8647.2	12014.9
15°	675.9	900.8	1152.9	1345.3	1478.1	1683.2	2105.0	3341.1	6463.1	10397.2	14074.7
12.5°	720.8	963.5	1213.7	1394.0	1534.5	1784.5	2283.0	4220.2	7860.5	12022.1	15865.3
10°	763.2	1019.7	1264.8	1440.0	1595.8	1892.6	2454.4	5080.9	9083.8	13078.1	16970.5
7.5°	806.7	1066.5	1308.0	1483.9	1654.9	1994.4	2643.1	5749.5	9997.2	13890.3	17824.5
5°	846.1	1102.5	1349.6	1533.0	1715.8	2084.8	2795.7	6260.5	10682.6	14561.5	18585.0
2.5°	880.6	1130.8	1384.9	1579.4	1775.1	2160.4	2839.6	6402.6	11004.6	14922.5	19333.1
0°	910.1	1152.1	1413.5	1620.5	1828.6	2221.9	2851.2	6377.8	11084.2	15031.9	20061.5
-2.5°	926.8	1179.7	1464.7	1679.6	1876.4	2271.5	2911.6	6387.2	11151.6	15798.1	20998.3
-5°	938.6	1200.3	1506.7	1731.9	1918.8	2306.4	2945.2	6242.0	11060.5	16201.5	21272.1
-7.5°	945.1	1213.4	1537.6	1775.4	1957.3	2331.7	2964.1	6005.9	11065.6	16219.8	20927.7
-10°	948.6	1225.7	1552.1	1799.9	1990.3	2343.9	2955.0	5600.4	10626.3	15780.8	20360.4
-12.5°	960.0	1237.1	1557.2	1818.0	2016.7	2346.7	2968.5	5203.6	9802.3	14981.5	19549.3
-15°	964.4	1240.1	1554.3	1832.9	2059.3	2375.3	2968.9	4587.2	8732.6	13967.3	18529.5
-17.5°	961.5	1234.5	1545.5	1854.5	2098.6	2377.7	2901.5	3778.6	7510.7	12524.5	17186.8
-20°	951.0	1221.7	1526.1	1865.2	2121.1	2397.4	2881.7	3647.3	6313.3	10720.5	15556.3



REPORT NUMBER: P731709 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	935.8	1201.9	1498.5	1841.7	2146.7	2440.5	2854.8	3472.7	4905.2	8659.7	13537.9
-25°	917.7	1180.0	1468.8	1814.5	2158.6	2468.1	2771.0	3239.6	4078.5	6896.5	11039.6
-27.5°	898.7	1148.8	1437.2	1769.6	2151.5	2454.9	2721.8	3110.4	3703.2	4937.6	8436.7
-30°	874.6	1111.4	1390.7	1711.3	2087.7	2414.4	2691.7	2943.2	3348.1	4089.9	6190.2
-32.5°	845.2	1067.6	1338.8	1644.9	1991.6	2365.9	2622.3	2840.8	3149.2	3603.8	4465.6
-35°	812.0	1028.9	1281.2	1561.1	1877.7	2243.9	2517.9	2749.1	2957.4	3307.3	3858.4
-37.5°	778.1	981.1	1207.1	1472.4	1773.9	2073.0	2396.1	2626.6	2836.5	3056.1	3448.6
-40°	738.6	921.8	1133.4	1378.8	1634.4	1905.7	2205.6	2494.2	2701.6	2930.4	3165.8
-42.5°	695.3	865.4	1054.5	1267.3	1496.7	1740.7	2006.7	2295.9	2573.8	2792.6	3009.0
-45°	660.4	804.5	970.6	1160.0	1357.5	1574.6	1817.2	2070.5	2365.6	2648.8	2849.0
-47.5°	618.2	743.9	897.0	1047.2	1225.9	1419.5	1626.9	1866.7	2114.2	2393.2	2666.8
-50°	577.8	693.0	810.8	946.2	1097.9	1268.0	1452.9	1664.1	1893.0	2121.6	2369.8
-52.5°	550.2	638.3	738.6	845.4	978.0	1123.9	1287.6	1466.9	1667.5	1867.3	2082.5
-55°	519.8	596.1	668.2	758.7	862.9	989.5	1131.6	1288.3	1441.3	1623.7	1806.4
-57.5°	490.2	553.5	611.4	680.9	767.9	860.9	990.0	1120.4	1253.3	1394.5	1548.9
-60°	460.2	512.0	562.7	618.8	682.3	764.6	854.4	963.4	1072.0	1184.8	1321.5
-62.5°	430.2	472.4	515.9	564.3	618.2	673.8	747.2	826.7	902.8	1005.5	1114.4
-65°	406.2	435.2	471.1	513.7	557.2	608.0	659.2	708.9	775.7	853.6	932.7
-67.5°	380.3	407.5	433.9	463.8	503.1	545.0	587.3	631.9	677.2	730.7	788.4
-70°	361.3	380.7	404.1	428.8	454.6	485.0	522.6	559.6	597.8	642.4	688.3
-72.5°	343.5	361.3	378.8	396.1	419.3	444.5	469.4	494.3	526.0	564.0	600.6
-75°	325.2	341.5	357.5	373.3	390.8	409.7	429.2	451.6	476.2	502.6	528.0
-77.5°	306.5	320.9	335.6	350.1	366.1	382.8	399.8	416.9	436.3	456.8	476.6
-80°	286.5	300.0	313.1	326.1	340.5	355.3	370.5	385.8	403.0	420.7	437.1
-82.5°	264.5	276.4	288.7	300.7	314.1	327.3	340.8	354.2	369.4	384.7	398.8
-85°	243.3	252.6	263.4	274.1	286.3	298.3	310.4	322.4	336.3	350.1	362.3
-87.5°	227.6	236.5	245.3	254.0	264.4	274.7	285.2	295.5	307.7	319.9	330.5
-90°	9.1	8.5	8.5	8.5	7.9	7.3	7.3	7.3	6.7	6.1	5.5



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	318.3	325.0	331.6	337.1	342.5	349.8	357.0	366.7	376.4	386.1	395.7
87.5°	5.9	5.4	4.8	4.7	4.7	4.7	4.7	4.1	3.6	3.6	3.6
85°	6.9	6.7	6.6	6.3	5.9	5.9	5.9	5.9	5.9	5.4	4.8
82.5°	7.3	7.3	7.3	6.7	6.1	6.1	6.1	6.1	6.1	5.5	4.8
80°	7.7	7.6	7.3	7.1	6.9	6.6	6.2	5.6	5.0	4.9	4.8
77.5°	8.6	8.3	7.8	7.6	7.4	6.8	6.2	5.6	4.9	4.8	4.8
75°	9.8	9.4	9.1	8.7	8.1	7.7	7.7	7.3	6.9	6.9	7.1
72.5°	11.7	11.5	11.5	11.8	11.8	12.1	12.7	13.2	13.7	14.6	15.7
70°	17.4	18.6	19.2	19.5	19.4	19.2	19.2	19.5	20.1	20.7	21.2
67.5°	25.5	27.4	28.4	28.9	27.0	25.9	26.0	26.6	27.6	29.2	31.7
65°	33.3	32.8	31.9	31.2	31.5	31.6	31.5	31.8	33.4	35.9	39.0
62.5°	39.1	33.8	30.6	29.1	30.2	32.1	30.8	29.8	31.1	32.8	34.3
60°	44.6	34.9	27.9	25.8	25.4	26.1	24.0	22.1	22.7	23.3	24.1
57.5°	49.9	37.3	25.9	22.0	18.5	16.7	16.1	15.4	15.1	14.7	14.8
55°	54.7	40.6	25.4	22.5	20.0	19.5	17.9	16.9	16.3	16.0	16.3
52.5°	60.6	52.3	41.7	38.7	43.6	44.0	38.9	46.2	51.8	54.3	55.3
50°	99.3	88.9	106.7	105.0	126.0	140.7	135.4	151.9	176.3	191.7	198.1
47.5°	218.1	218.5	253.7	284.9	310.7	344.5	370.4	395.5	430.4	452.0	461.8
45°	413.8	449.0	485.7	539.3	590.7	653.2	728.4	787.6	1025.0	1261.4	1476.5
42.5°	633.4	672.0	725.8	842.5	981.0	1302.0	1875.7	2195.9	2595.6	3030.7	3197.7
40°	816.1	872.2	1020.1	1348.5	2148.3	2909.9	3746.5	4453.9	5080.1	5440.4	5741.4
37.5°	1041.9	1175.8	1849.1	2778.6	3773.1	4727.6	5589.2	6336.7	6985.6	7511.9	8032.8
35°	1370.9	2260.1	3254.8	4463.5	5520.6	6404.8	7297.4	8154.0	8889.9	9676.0	10844.1
32.5°	2598.9	3761.1	5040.5	6123.9	7157.0	8272.7	9210.7	10581.4	11654.8	13088.0	15278.2
30°	4171.4	5630.0	6790.1	7873.8	9198.6	10699.8	12266.1	14362.5	16553.2	18838.4	21190.3
27.5°	6190.4	7663.7	8886.7	10332.1	12081.4	14079.3	17073.7	20028.8	23170.5	26028.3	28200.2
25°	8624.0	10184.2	12274.8	14372.1	16875.4	20289.6	23653.8	27274.5	30424.4	33228.9	36368.2
22.5°	10904.8	13462.4	16223.1	19389.3	23465.8	27316.5	31476.0	35140.0	39093.1	43090.3	46181.6
20°	12830.3	16162.3	20122.5	24686.9	29205.4	33567.5	38407.9	44248.4	50133.3	55391.0	59206.2
17.5°	15427.7	19647.5	24577.0	30002.4	34867.0	40272.7	47009.5	54598.1	62844.3	70140.6	75925.9
15°	18265.7	23193.2	28767.1	34451.9	40606.3	47849.7	56512.3	66203.6	76290.5	86521.5	96053.1
12.5°	20195.1	25968.1	32054.8	38814.2	46490.5	56202.2	66720.9	77464.4	88991.5	101721.2	112777.9
10°	21844.5	28249.1	35592.3	43454.8	52275.3	62715.2	73586.7	86635.9	101024.4	113560.2	125402.9
7.5°	23475.9	31001.7	38672.5	46858.9	56549.7	67888.9	80755.4	94789.5	109432.4	123057.9	132742.6
5°	25406.4	33214.0	40884.3	49532.0	59680.4	71475.2	85046.5	101162.3	116590.1	129114.7	137849.8
2.5°	27002.6	34541.2	42395.3	50954.2	61384.3	73699.0	88428.4	106337.7	122168.3	133879.2	141783.3
0°	27815.3	35391.2	43345.8	52043.5	62735.7	75301.2	91371.5	110185.3	125147.0	135965.6	144430.4
-2.5°	27914.3	35121.0	42929.0	51507.5	61957.5	74772.1	91246.8	110282.9	125922.4	137166.7	145518.2
-5°	27625.8	34765.0	42558.0	51141.8	61450.4	74798.6	91340.2	109644.8	124757.0	136404.2	144269.4
-7.5°	26930.1	34111.3	41918.8	50376.1	60522.7	73468.4	88896.4	105488.4	121032.7	133617.3	140872.9
-10°	25910.9	32966.8	40653.9	48749.9	58318.8	70287.8	84085.4	99275.5	114983.1	127015.8	135383.0
-12.5°	24621.7	31299.6	38647.9	46302.1	55336.3	66487.6	78786.7	91506.1	104673.4	118391.3	127106.3
-15°	23141.8	29243.8	36122.3	43817.5	52749.3	62042.6	71812.2	82174.9	94212.0	105432.8	115577.3
-17.5°	21737.5	26992.9	33410.9	40908.3	48514.1	56589.1	64961.9	73422.4	83074.9	91883.0	99762.6
-20°	19972.6	24447.5	30361.0	37022.8	44090.3	51087.0	58278.7	65133.2	72140.6	79310.0	85568.0



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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°	17892.5	22244.3	27178.1	32978.6	39763.6	45990.8	51750.9	57107.6	62724.3	67685.0	72835.2
-25°	15626.5	19810.7	24344.6	29632.4	34841.9	40487.3	45267.9	49823.4	54180.0	58075.3	62080.1
-27.5°	12843.8	17261.1	21730.3	25962.3	30261.2	34314.6	38771.9	42974.9	46608.2	49821.7	52995.8
-30°	9708.9	14397.4	18625.0	22255.3	25663.5	29044.2	32456.6	35983.4	39423.0	42349.3	44949.0
-32.5°	7163.5	11074.6	14982.3	18539.9	21522.7	24316.9	26970.6	29737.6	32143.4	34613.6	37017.7
-35°	4739.5	7503.9	10747.9	14364.6	17471.2	19821.7	22228.0	24434.0	26247.6	28162.6	29977.6
-37.5°	3988.6	4724.3	6894.5	9830.8	12708.0	15411.0	17810.6	19728.6	21397.7	22927.3	24494.8
-40°	3518.4	3938.1	4555.5	5622.3	8042.1	10420.0	12892.2	14930.8	16709.0	18175.3	19618.5
-42.5°	3209.8	3497.8	3805.4	4225.5	4639.6	5804.3	7833.6	9593.3	11261.0	12913.0	14400.0
-45°	3049.9	3211.6	3387.5	3615.9	3793.0	4108.7	4461.2	4792.4	6119.7	7554.1	8754.7
-47.5°	2858.2	3030.5	3162.0	3269.5	3355.7	3494.3	3640.9	3832.4	4139.7	4502.0	4778.6
-50°	2613.0	2822.2	2953.4	3061.3	3123.1	3176.7	3229.5	3349.6	3516.0	3713.6	3870.4
-52.5°	2296.0	2503.0	2688.8	2829.1	2897.4	2964.1	3030.4	3113.0	3207.6	3321.7	3403.6
-55°	1997.3	2170.2	2330.9	2461.7	2579.7	2687.1	2790.5	2877.9	2980.0	3088.5	3164.8
-57.5°	1713.6	1853.3	1985.2	2098.5	2200.6	2291.0	2396.7	2511.5	2642.1	2766.5	2854.0
-60°	1448.7	1559.7	1669.4	1761.4	1844.5	1918.6	2016.3	2112.6	2227.1	2329.0	2403.3
-62.5°	1211.7	1308.6	1389.7	1459.2	1521.8	1583.8	1665.9	1746.5	1840.7	1922.2	1983.8
-65°	1006.7	1087.6	1144.7	1196.3	1241.6	1294.5	1358.0	1422.6	1496.6	1559.9	1610.5
-67.5°	848.7	903.5	939.4	971.2	1008.9	1050.9	1098.9	1150.5	1208.1	1255.9	1294.7
-70°	729.2	763.4	785.2	808.9	836.4	865.5	898.0	936.8	980.6	1018.0	1050.1
-72.5°	634.7	660.8	678.8	697.2	713.7	733.6	755.4	784.5	816.8	846.0	873.1
-75°	552.7	571.4	588.2	604.1	618.5	635.3	652.8	677.2	703.7	727.8	750.5
-77.5°	497.6	512.1	523.2	533.9	544.4	558.4	572.7	592.5	613.1	633.0	652.3
-80°	453.5	464.6	474.0	481.9	489.1	501.0	513.3	529.5	545.9	563.1	580.1
-82.5°	412.6	422.3	431.4	438.8	445.7	456.5	467.4	481.9	496.4	510.7	524.8
-85°	374.3	383.2	391.7	398.8	405.8	414.5	423.1	435.6	448.1	461.1	474.0
-87.5°	341.0	349.4	357.8	363.3	368.7	376.5	384.3	394.9	405.5	416.7	427.9
-90°	4.8	4.8	4.8	4.2	3.6	3.6	3.6	3.0	2.4	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	400.6	405.4	407.9	410.3	407.9	405.4	400.6	395.7	386.1	376.4	366.7
87.5°	3.0	2.4	2.4	2.4	2.4	2.4	3.0	3.6	3.6	3.6	4.1
85°	4.2	3.6	4.2	4.8	4.2	3.6	4.2	4.8	5.4	5.9	5.9
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.5	6.1	6.1
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.9	5.0	5.6
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.9	5.6
75°	6.7	6.1	6.1	6.1	6.1	6.1	6.7	7.1	6.9	6.9	7.3
72.5°	16.3	16.6	17.4	18.2	17.4	16.6	16.3	15.7	14.6	13.7	13.2
70°	21.5	21.6	21.8	21.8	21.8	21.6	21.5	21.2	20.7	20.1	19.5
67.5°	32.9	33.5	34.9	36.3	34.9	33.5	32.9	31.7	29.2	27.6	26.6
65°	41.2	43.0	43.5	43.6	43.5	43.0	41.2	39.0	35.9	33.4	31.8
62.5°	35.7	37.3	37.6	37.5	37.6	37.3	35.7	34.3	32.8	31.1	29.8
60°	24.9	25.6	26.1	26.6	26.1	25.6	24.9	24.1	23.3	22.7	22.1
57.5°	15.1	15.8	15.8	15.7	15.8	15.8	15.1	14.8	14.7	15.1	15.4
55°	16.5	16.8	16.4	15.7	16.4	16.8	16.5	16.3	16.0	16.3	16.9
52.5°	53.9	51.2	48.5	46.0	48.5	51.2	53.9	55.3	54.3	51.8	46.2
50°	196.0	192.7	188.0	182.7	188.0	192.7	196.0	198.1	191.7	176.3	151.9
47.5°	470.5	471.5	467.0	458.7	467.0	471.5	470.5	461.8	452.0	430.4	395.5
45°	1663.9	1754.4	1803.1	1837.1	1803.1	1754.4	1663.9	1476.5	1261.4	1025.0	787.6
42.5°	3343.7	3470.7	3567.1	3587.0	3567.1	3470.7	3343.7	3197.7	3030.7	2595.6	2195.9
40°	6098.5	6119.7	5765.8	5231.7	5765.8	6119.7	6098.5	5741.4	5440.4	5080.1	4453.9
37.5°	8653.6	9546.5	10583.9	11113.3	10583.9	9546.5	8653.6	8032.8	7511.9	6985.6	6336.7
35°	12420.0	13763.2	14198.9	14210.2	14198.9	13763.2	12420.0	10844.1	9676.0	8889.9	8154.0
32.5°	17253.4	18345.5	18928.6	18770.2	18928.6	18345.5	17253.4	15278.2	13088.0	11654.8	10581.4
30°	22560.8	23511.0	23518.5	23200.8	23518.5	23511.0	22560.8	21190.3	18838.4	16553.2	14362.5
27.5°	30448.3	32456.0	33869.1	34249.9	33869.1	32456.0	30448.3	28200.2	26028.3	23170.5	20028.8
25°	39197.0	41403.3	42759.8	43253.8	42759.8	41403.3	39197.0	36368.2	33228.9	30424.4	27274.5
22.5°	49058.6	51203.7	52182.7	52694.6	52182.7	51203.7	49058.6	46181.6	43090.3	39093.1	35140.0
20°	62843.1	65893.0	67042.7	67534.1	67042.7	65893.0	62843.1	59206.2	55391.0	50133.3	44248.4
17.5°	81937.0	87960.6	91727.0	93661.2	91727.0	87960.6	81937.0	75925.9	70140.6	62844.3	54598.1
15°	103107.2	109222.4	113244.0	115655.4	113244.0	109222.4	103107.2	96053.1	86521.5	76290.5	66203.6
12.5°	121268.7	126720.1	130604.4	132913.5	130604.4	126720.1	121268.7	112777.9	101721.2	88991.5	77464.4
10°	132919.8	137594.9	141624.8	143592.9	141624.8	137594.9	132919.8	125402.9	113560.2	101024.4	86635.9
7.5°	139504.7	144940.7	147125.3	148471.3	147125.3	144940.7	139504.7	132742.6	123057.9	109432.4	94789.5
5°	144608.1	148903.9	150920.5	151904.6	150920.5	148903.9	144608.1	137849.8	129114.7	116590.1	101162.3
2.5°	148015.0	151744.3	153170.4	153964.4	153170.4	151744.3	148015.0	141783.3	133879.2	122168.3	106337.7
0°	149650.0	152399.6	153998.3	153218.9	153998.3	152399.6	149650.0	144430.4	135965.6	125147.0	110185.3
-2.5°	149661.4	152275.0	153463.3	152884.9	153463.3	152275.0	149661.4	145518.2	137166.7	125922.4	110282.9
-5°	148381.0	150331.5	151779.0	151315.2	151779.0	150331.5	148381.0	144269.4	136404.2	124757.0	109644.8
-7.5°	144928.0	147520.4	148580.6	148632.2	148580.6	147520.4	144928.0	140872.9	133617.3	121032.7	105488.4
-10°	140177.9	143052.1	144180.8	144296.1	144180.8	143052.1	140177.9	135383.0	127015.8	114983.1	99275.5
-12.5°	133118.0	136489.6	138114.1	138403.6	138114.1	136489.6	133118.0	127106.3	118391.3	104673.4	91506.1
-15°	122158.5	126703.0	129268.0	130168.2	129268.0	126703.0	122158.5	115577.3	105432.8	94212.0	82174.9
-17.5°	107259.5	112689.2	115887.7	117015.7	115887.7	112689.2	107259.5	99762.6	91883.0	83074.9	73422.4
-20°	91718.6	95743.9	98209.6	99225.7	98209.6	95743.9	91718.6	85568.0	79310.0	72140.6	65133.2



REPORT NUMBER: P731709 (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°
-22.5°	77582.5	80827.9	82660.0	83473.7	82660.0	80827.9	77582.5	72835.2	67685.0	62724.3	57107.6
-25°	65322.1	68055.6	68995.1	69524.9	68995.1	68055.6	65322.1	62080.1	58075.3	54180.0	49823.4
-27.5°	55304.6	57473.1	57979.0	58446.7	57979.0	57473.1	55304.6	52995.8	49821.7	46608.2	42974.9
-30°	46863.6	48750.6	49008.6	49526.3	49008.6	48750.6	46863.6	44949.0	42349.3	39423.0	35983.4
-32.5°	38969.6	40649.9	41293.6	41392.6	41293.6	40649.9	38969.6	37017.7	34613.6	32143.4	29737.6
-35°	31410.6	32517.9	32956.1	32982.9	32956.1	32517.9	31410.6	29977.6	28162.6	26247.6	24434.0
-37.5°	25467.3	26173.3	26680.7	26540.9	26680.7	26173.3	25467.3	24494.8	22927.3	21397.7	19728.6
-40°	20427.2	21137.4	21601.3	21488.4	21601.3	21137.4	20427.2	19618.5	18175.3	16709.0	14930.8
-42.5°	15220.2	16001.3	16439.7	16318.4	16439.7	16001.3	15220.2	14400.0	12913.0	11261.0	9593.3
-45°	9439.2	10127.7	10450.7	10254.0	10450.7	10127.7	9439.2	8754.7	7554.1	6119.7	4792.4
-47.5°	4924.4	5081.1	5131.2	5061.1	5131.2	5081.1	4924.4	4778.6	4502.0	4139.7	3832.4
-50°	3992.6	4090.9	4133.2	4120.7	4133.2	4090.9	3992.6	3870.4	3713.6	3516.0	3349.6
-52.5°	3467.8	3513.2	3528.2	3519.3	3528.2	3513.2	3467.8	3403.6	3321.7	3207.6	3113.0
-55°	3229.3	3274.4	3289.9	3284.5	3289.9	3274.4	3229.3	3164.8	3088.5	2980.0	2877.9
-57.5°	2926.7	2982.0	3016.3	3034.0	3016.3	2982.0	2926.7	2854.0	2766.5	2642.1	2511.5
-60°	2463.1	2507.4	2520.1	2513.6	2520.1	2507.4	2463.1	2403.3	2329.0	2227.1	2112.6
-62.5°	2032.3	2068.7	2095.8	2114.2	2095.8	2068.7	2032.3	1983.8	1922.2	1840.7	1746.5
-65°	1647.7	1673.9	1679.5	1674.9	1679.5	1673.9	1647.7	1610.5	1559.9	1496.6	1422.6
-67.5°	1321.8	1341.3	1343.9	1339.7	1343.9	1341.3	1321.8	1294.7	1255.9	1208.1	1150.5
-70°	1071.7	1088.1	1090.4	1088.0	1090.4	1088.1	1071.7	1050.1	1018.0	980.6	936.8
-72.5°	888.9	900.9	910.0	917.3	910.0	900.9	888.9	873.1	846.0	816.8	784.5
-75°	761.9	770.6	772.7	773.3	772.7	770.6	761.9	750.5	727.8	703.7	677.2
-77.5°	662.5	671.1	677.3	682.6	677.3	671.1	662.5	652.3	633.0	613.1	592.5
-80°	587.8	594.4	599.4	603.9	599.4	594.4	587.8	580.1	563.1	545.9	529.5
-82.5°	532.2	539.1	543.2	547.0	543.2	539.1	532.2	524.8	510.7	496.4	481.9
-85°	479.6	484.9	488.8	492.6	488.8	484.9	479.6	474.0	461.1	448.1	435.6
-87.5°	433.0	438.0	440.5	442.9	440.5	438.0	433.0	427.9	416.7	405.5	394.9
-90°	1.8	1.2	1.2	1.2	1.2	1.2	1.8	2.4	2.4	2.4	3.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	357.0	349.8	342.5	337.1	331.6	325.0	318.3	308.0	297.7	286.8	275.9
87.5°	4.7	4.7	4.7	4.7	4.8	5.4	5.9	6.0	6.1	6.7	7.3
85°	5.9	5.9	5.9	6.3	6.6	6.7	6.9	6.8	6.8	7.3	7.8
82.5°	6.1	6.1	6.1	6.7	7.3	7.3	7.3	7.5	7.7	8.1	8.6
80°	6.2	6.6	6.9	7.1	7.3	7.6	7.7	8.1	8.5	8.5	8.6
77.5°	6.2	6.8	7.4	7.6	7.8	8.3	8.6	8.5	8.6	9.0	9.3
75°	7.7	7.7	8.1	8.7	9.1	9.4	9.8	10.0	10.0	10.0	10.2
72.5°	12.7	12.1	11.8	11.8	11.5	11.5	11.7	11.9	11.9	11.4	11.1
70°	19.2	19.2	19.4	19.5	19.2	18.6	17.4	16.0	14.8	14.7	13.7
67.5°	26.0	25.9	27.0	28.9	28.4	27.4	25.5	23.6	21.9	20.3	17.5
65°	31.5	31.6	31.5	31.2	31.9	32.8	33.3	31.5	31.7	28.9	23.1
62.5°	30.8	32.1	30.2	29.1	30.6	33.8	39.1	41.7	44.1	41.5	34.7
60°	24.0	26.1	25.4	25.8	27.9	34.9	44.6	52.2	58.5	54.3	46.5
57.5°	16.1	16.7	18.5	22.0	25.9	37.3	49.9	61.5	69.8	64.8	58.1
55°	17.9	19.5	20.0	22.5	25.4	40.6	54.7	66.8	75.4	73.1	66.3
52.5°	38.9	44.0	43.6	38.7	41.7	52.3	60.6	74.3	81.9	81.7	76.0
50°	135.4	140.7	126.0	105.0	106.7	88.9	99.3	101.8	99.0	99.8	91.2
47.5°	370.4	344.5	310.7	284.9	253.7	218.5	218.1	177.9	172.7	139.4	133.4
45°	728.4	653.2	590.7	539.3	485.7	449.0	413.8	392.5	310.9	280.0	201.3
42.5°	1875.7	1302.0	981.0	842.5	725.8	672.0	633.4	607.2	570.5	474.0	397.2
40°	3746.5	2909.9	2148.3	1348.5	1020.1	872.2	816.1	754.9	748.6	698.7	597.8
37.5°	5589.2	4727.6	3773.1	2778.6	1849.1	1175.8	1041.9	950.1	882.4	863.9	791.3
35°	7297.4	6404.8	5520.6	4463.5	3254.8	2260.1	1370.9	1208.3	1078.0	1001.6	958.0
32.5°	9210.7	8272.7	7157.0	6123.9	5040.5	3761.1	2598.9	1610.1	1322.1	1189.7	1087.3
30°	12266.1	10699.8	9198.6	7873.8	6790.1	5630.0	4171.4	2691.9	1704.7	1384.6	1224.2
27.5°	17073.7	14079.3	12081.4	10332.1	8886.7	7663.7	6190.4	4221.7	2349.4	1689.9	1403.3
25°	23653.8	20289.6	16875.4	14372.1	12274.8	10184.2	8624.0	6242.3	3843.0	2052.9	1603.1
22.5°	31476.0	27316.5	23465.8	19389.3	16223.1	13462.4	10904.8	8285.5	5401.8	2885.2	1942.8
20°	38407.9	33567.5	29205.4	24686.9	20122.5	16162.3	12830.3	10088.4	7079.9	4201.8	2272.6
17.5°	47009.5	40272.7	34867.0	30002.4	24577.0	19647.5	15427.7	12014.9	8647.2	5300.9	2543.1
15°	56512.3	47849.7	40606.3	34451.9	28767.1	23193.2	18265.7	14074.7	10397.2	6463.1	3341.1
12.5°	66720.9	56202.2	46490.5	38814.2	32054.8	25968.1	20195.1	15865.3	12022.1	7860.5	4220.2
10°	73586.7	62715.2	52275.3	43454.8	35592.3	28249.1	21844.5	16970.5	13078.1	9083.8	5080.9
7.5°	80755.4	67888.9	56549.7	46858.9	38672.5	31001.7	23475.9	17824.5	13890.3	9997.2	5749.5
5°	85046.5	71475.2	59680.4	49532.0	40884.3	33214.0	25406.4	18585.0	14561.5	10682.6	6260.5
2.5°	88428.4	73699.0	61384.3	50954.2	42395.3	34541.2	27002.6	19333.1	14922.5	11004.6	6402.6
0°	91371.5	75301.2	62735.7	52043.5	43345.8	35391.2	27815.3	20061.5	15031.9	11084.2	6377.8
-2.5°	91246.8	74772.1	61957.5	51507.5	42929.0	35121.0	27914.3	20998.3	15798.1	11151.6	6387.2
-5°	91340.2	74798.6	61450.4	51141.8	42558.0	34765.0	27625.8	21272.1	16201.5	11060.5	6242.0
-7.5°	88896.4	73468.4	60522.7	50376.1	41918.8	34111.3	26930.1	20927.7	16219.8	11065.6	6005.9
-10°	84085.4	70287.8	58318.8	48749.9	40653.9	32966.8	25910.9	20360.4	15780.8	10626.3	5600.4
-12.5°	78786.7	66487.6	55336.3	46302.1	38647.9	31299.6	24621.7	19549.3	14981.5	9802.3	5203.6
-15°	71812.2	62042.6	52749.3	43817.5	36122.3	29243.8	23141.8	18529.5	13967.3	8732.6	4587.2
-17.5°	64961.9	56589.1	48514.1	40908.3	33410.9	26992.9	21737.5	17186.8	12524.5	7510.7	3778.6
-20°	58278.7	51087.0	44090.3	37022.8	30361.0	24447.5	19972.6	15556.3	10720.5	6313.3	3647.3



REPORT NUMBER: P731709 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	51750.9	45990.8	39763.6	32978.6	27178.1	22244.3	17892.5	13537.9	8659.7	4905.2	3472.7
-25°	45267.9	40487.3	34841.9	29632.4	24344.6	19810.7	15626.5	11039.6	6896.5	4078.5	3239.6
-27.5°	38771.9	34314.6	30261.2	25962.3	21730.3	17261.1	12843.8	8436.7	4937.6	3703.2	3110.4
-30°	32456.6	29044.2	25663.5	22255.3	18625.0	14397.4	9708.9	6190.2	4089.9	3348.1	2943.2
-32.5°	26970.6	24316.9	21522.7	18539.9	14982.3	11074.6	7163.5	4465.6	3603.8	3149.2	2840.8
-35°	22228.0	19821.7	17471.2	14364.6	10747.9	7503.9	4739.5	3858.4	3307.3	2957.4	2749.1
-37.5°	17810.6	15411.0	12708.0	9830.8	6894.5	4724.3	3988.6	3448.6	3056.1	2836.5	2626.6
-40°	12892.2	10420.0	8042.1	5622.3	4555.5	3938.1	3518.4	3165.8	2930.4	2701.6	2494.2
-42.5°	7833.6	5804.3	4639.6	4225.5	3805.4	3497.8	3209.8	3009.0	2792.6	2573.8	2295.9
-45°	4461.2	4108.7	3793.0	3615.9	3387.5	3211.6	3049.9	2849.0	2648.8	2365.6	2070.5
-47.5°	3640.9	3494.3	3355.7	3269.5	3162.0	3030.5	2858.2	2666.8	2393.2	2114.2	1866.7
-50°	3229.5	3176.7	3123.1	3061.3	2953.4	2822.2	2613.0	2369.8	2121.6	1893.0	1664.1
-52.5°	3030.4	2964.1	2897.4	2829.1	2688.8	2503.0	2296.0	2082.5	1867.3	1667.5	1466.9
-55°	2790.5	2687.1	2579.7	2461.7	2330.9	2170.2	1997.3	1806.4	1623.7	1441.3	1288.3
-57.5°	2396.7	2291.0	2200.6	2098.5	1985.2	1853.3	1713.6	1548.9	1394.5	1253.3	1120.4
-60°	2016.3	1918.6	1844.5	1761.4	1669.4	1559.7	1448.7	1321.5	1184.8	1072.0	963.4
-62.5°	1665.9	1583.8	1521.8	1459.2	1389.7	1308.6	1211.7	1114.4	1005.5	902.8	826.7
-65°	1358.0	1294.5	1241.6	1196.3	1144.7	1087.6	1006.7	932.7	853.6	775.7	708.9
-67.5°	1098.9	1050.9	1008.9	971.2	939.4	903.5	848.7	788.4	730.7	677.2	631.9
-70°	898.0	865.5	836.4	808.9	785.2	763.4	729.2	688.3	642.4	597.8	559.6
-72.5°	755.4	733.6	713.7	697.2	678.8	660.8	634.7	600.6	564.0	526.0	494.3
-75°	652.8	635.3	618.5	604.1	588.2	571.4	552.7	528.0	502.6	476.2	451.6
-77.5°	572.7	558.4	544.4	533.9	523.2	512.1	497.6	476.6	456.8	436.3	416.9
-80°	513.3	501.0	489.1	481.9	474.0	464.6	453.5	437.1	420.7	403.0	385.8
-82.5°	467.4	456.5	445.7	438.8	431.4	422.3	412.6	398.8	384.7	369.4	354.2
-85°	423.1	414.5	405.8	398.8	391.7	383.2	374.3	362.3	350.1	336.3	322.4
-87.5°	384.3	376.5	368.7	363.3	357.8	349.4	341.0	330.5	319.9	307.7	295.5
-90°	3.6	3.6	3.6	4.2	4.8	4.8	4.8	5.5	6.1	6.7	7.3



REPORT NUMBER: P731709 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-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°	265.7	255.4	245.7	236.0	228.2	220.3	211.8	203.3	189.4	175.5	156.2
87.5°	7.7	8.1	8.6	9.2	9.1	9.1	9.7	10.2	10.4	10.5	11.0
85°	8.3	8.9	9.2	9.7	9.8	9.7	10.2	10.7	11.1	11.4	11.8
82.5°	9.2	9.6	9.6	9.8	10.5	10.9	11.0	11.3	11.8	12.2	12.5
80°	9.2	9.8	10.0	10.2	11.2	12.1	11.8	11.9	12.6	13.0	13.2
77.5°	9.7	10.1	10.5	10.9	11.5	12.2	12.3	12.5	13.3	13.9	14.0
75°	10.6	10.7	10.8	11.2	11.9	12.3	12.7	13.1	14.0	14.7	14.7
72.5°	11.5	11.4	11.2	11.5	12.4	13.1	13.4	13.7	14.5	15.3	15.5
70°	12.9	12.3	11.9	12.3	13.1	13.9	14.4	14.8	15.1	16.0	16.4
67.5°	14.5	13.8	13.0	13.3	14.0	15.1	15.6	16.2	16.5	16.8	17.4
65°	20.0	17.5	14.5	15.2	15.4	16.5	17.4	18.0	18.0	18.5	18.4
62.5°	28.0	23.7	21.0	18.6	18.2	19.7	19.5	20.9	19.9	20.2	20.0
60°	38.3	31.6	28.4	25.8	24.1	24.0	24.7	24.3	24.0	22.1	21.9
57.5°	47.9	38.9	37.9	34.3	33.3	31.4	31.6	30.9	29.1	27.2	23.9
55°	56.7	48.9	49.0	46.4	45.3	41.8	41.4	39.8	36.0	33.7	26.5
52.5°	65.8	62.9	62.1	62.9	62.0	55.6	55.0	49.8	46.9	41.0	33.3
50°	79.8	82.4	79.5	84.2	81.6	77.6	69.8	64.4	58.5	49.8	40.7
47.5°	115.9	117.8	108.8	112.3	108.1	102.3	91.9	80.7	70.8	61.2	48.3
45°	201.2	173.1	162.2	151.8	142.4	134.7	118.1	97.9	86.5	72.7	56.0
42.5°	318.5	280.1	249.7	197.5	193.7	172.3	147.4	123.9	103.0	84.6	65.4
40°	502.2	430.8	364.7	306.8	257.5	213.9	186.3	152.9	119.9	97.8	76.1
37.5°	697.7	607.2	520.4	431.5	342.1	281.4	229.4	183.4	140.3	113.2	87.0
35°	871.8	791.2	671.4	567.9	465.3	351.9	275.7	218.7	167.8	129.0	98.0
32.5°	1021.3	944.1	813.7	698.7	565.3	424.3	334.0	258.8	196.0	145.2	109.5
30°	1141.4	1053.6	944.2	802.5	648.5	506.0	394.8	298.3	224.5	161.7	121.8
27.5°	1258.7	1159.2	1059.4	897.7	726.0	576.1	445.5	336.9	253.4	180.2	135.1
25°	1399.0	1269.4	1159.5	1001.3	802.0	632.7	490.9	374.8	284.5	201.6	148.0
22.5°	1574.1	1377.8	1261.2	1110.2	888.7	688.5	535.3	414.8	311.2	221.9	160.3
20°	1727.0	1473.8	1358.5	1211.3	982.9	759.8	581.0	448.2	336.5	240.9	171.9
17.5°	1888.4	1574.6	1421.0	1283.3	1074.5	831.8	629.0	479.8	360.3	258.6	183.0
15°	2105.0	1683.2	1478.1	1345.3	1152.9	900.8	675.9	509.7	382.4	275.0	193.8
12.5°	2283.0	1784.5	1534.5	1394.0	1213.7	963.5	720.8	537.8	402.7	291.4	204.4
10°	2454.4	1892.6	1595.8	1440.0	1264.8	1019.7	763.2	567.5	426.8	307.8	214.4
7.5°	2643.1	1994.4	1654.9	1483.9	1308.0	1066.5	806.7	603.1	450.2	322.9	223.7
5°	2795.7	2084.8	1715.8	1533.0	1349.6	1102.5	846.1	636.5	471.7	336.6	232.2
2.5°	2839.6	2160.4	1775.1	1579.4	1384.9	1130.8	880.6	667.2	491.2	348.8	240.0
0°	2851.2	2221.9	1828.6	1620.5	1413.5	1152.1	910.1	694.7	508.3	359.4	246.9
-2.5°	2911.6	2271.5	1876.4	1679.6	1464.7	1179.7	926.8	708.9	522.7	371.7	256.9
-5°	2945.2	2306.4	1918.8	1731.9	1506.7	1200.3	938.6	719.3	534.4	382.1	266.0
-7.5°	2964.1	2331.7	1957.3	1775.4	1537.6	1213.4	945.1	726.1	543.2	390.6	274.1
-10°	2955.0	2343.9	1990.3	1799.9	1552.1	1225.7	948.6	729.4	549.1	397.1	281.1
-12.5°	2968.5	2346.7	2016.7	1818.0	1557.2	1237.1	960.0	734.5	552.2	401.5	287.1
-15°	2968.9	2375.3	2059.3	1832.9	1554.3	1240.1	964.4	737.1	553.1	403.9	291.8
-17.5°	2901.5	2377.7	2098.6	1854.5	1545.5	1234.5	961.5	734.1	550.8	404.5	296.0
-20°	2881.7	2397.4	2121.1	1865.2	1526.1	1221.7	951.0	725.0	545.1	403.0	299.4



REPORT NUMBER: P731709 (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°	2854.8	2440.5	2146.7	1841.7	1498.5	1201.9	935.8	710.4	536.1	399.4	301.8
-25°	2771.0	2468.1	2158.6	1814.5	1468.8	1180.0	917.7	697.8	523.7	393.8	303.1
-27.5°	2721.8	2454.9	2151.5	1769.6	1437.2	1148.8	898.7	688.4	515.4	386.0	303.4
-30°	2691.7	2414.4	2087.7	1711.3	1390.7	1111.4	874.6	673.9	508.6	382.7	302.5
-32.5°	2622.3	2365.9	1991.6	1644.9	1338.8	1067.6	845.2	653.8	498.5	382.4	301.8
-35°	2517.9	2243.9	1877.7	1561.1	1281.2	1028.9	812.0	628.1	484.8	380.3	300.6
-37.5°	2396.1	2073.0	1773.9	1472.4	1207.1	981.1	778.1	604.8	467.6	376.2	298.8
-40°	2205.6	1905.7	1634.4	1378.8	1133.4	921.8	738.6	582.3	457.1	370.3	295.7
-42.5°	2006.7	1740.7	1496.7	1267.3	1054.5	865.4	695.3	555.9	448.5	364.4	291.3
-45°	1817.2	1574.6	1357.5	1160.0	970.6	804.5	660.4	528.3	437.4	357.9	287.1
-47.5°	1626.9	1419.5	1225.9	1047.2	897.0	743.9	618.2	512.8	424.0	350.0	283.7
-50°	1452.9	1268.0	1097.9	946.2	810.8	693.0	577.8	494.4	412.0	339.8	279.3
-52.5°	1287.6	1123.9	978.0	845.4	738.6	638.3	550.2	472.3	397.6	331.2	273.9
-55°	1131.6	989.5	862.9	758.7	668.2	596.1	519.8	450.1	381.2	322.6	268.0
-57.5°	990.0	860.9	767.9	680.9	611.4	553.5	490.2	425.9	368.2	313.0	264.9
-60°	854.4	764.6	682.3	618.8	562.7	512.0	460.2	402.8	355.4	303.3	260.7
-62.5°	747.2	673.8	618.2	564.3	515.9	472.4	430.2	384.4	340.6	297.1	255.6
-65°	659.2	608.0	557.2	513.7	471.1	435.2	406.2	364.8	329.1	290.0	249.6
-67.5°	587.3	545.0	503.1	463.8	433.9	407.5	380.3	349.6	318.2	282.3	242.4
-70°	522.6	485.0	454.6	428.8	404.1	380.7	361.3	335.9	306.6	272.7	234.6
-72.5°	469.4	444.5	419.3	396.1	378.8	361.3	343.5	321.3	293.4	262.4	226.2
-75°	429.2	409.7	390.8	373.3	357.5	341.5	325.2	305.9	279.8	251.5	216.4
-77.5°	399.8	382.8	366.1	350.1	335.6	320.9	306.5	290.0	265.0	238.4	205.6
-80°	370.5	355.3	340.5	326.1	313.1	300.0	286.5	271.4	248.2	224.6	194.4
-82.5°	340.8	327.3	314.1	300.7	288.7	276.4	264.5	251.6	231.0	210.3	183.7
-85°	310.4	298.3	286.3	274.1	263.4	252.6	243.3	233.5	216.3	198.9	174.9
-87.5°	285.2	274.7	264.4	254.0	245.3	236.5	227.6	218.5	202.9	187.4	165.7
-90°	7.3	7.3	7.9	8.5	8.5	8.5	9.1	9.7	9.7	9.7	10.3



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	136.8	113.2	89.6	64.1	38.7	26.0	13.3
87.5°	11.5	11.4	11.3	11.3	11.2	12.4	13.3
85°	12.1	11.9	11.7	11.7	11.5	12.6	13.3
82.5°	12.8	12.5	12.2	12.1	11.9	12.9	13.3
80°	13.4	13.0	12.6	12.5	12.2	13.2	13.3
77.5°	14.0	13.6	13.0	12.9	12.6	13.5	13.3
75°	14.7	14.4	13.5	13.3	12.9	13.7	13.3
72.5°	15.4	15.2	14.4	13.7	13.3	14.0	13.3
70°	16.3	16.1	15.3	14.1	13.7	14.3	13.3
67.5°	17.3	17.0	16.1	14.9	14.1	14.6	13.3
65°	18.4	18.0	17.0	15.6	14.5	14.9	13.3
62.5°	19.5	19.0	17.9	16.3	15.0	15.2	13.3
60°	20.7	20.0	18.8	17.0	15.5	15.4	13.3
57.5°	23.0	21.0	20.0	17.7	16.3	15.7	13.3
55°	25.6	22.1	21.3	18.4	17.1	16.0	13.3
52.5°	28.5	23.5	22.7	19.1	18.0	16.3	13.3
50°	31.6	26.8	24.2	19.8	18.9	16.6	13.3
47.5°	35.5	30.3	25.8	20.6	19.9	16.9	13.3
45°	42.2	34.0	27.6	22.0	20.9	17.2	13.3
42.5°	48.9	37.9	29.4	23.3	22.0	17.5	13.3
40°	56.0	42.0	31.9	25.3	23.1	17.8	13.3
37.5°	63.7	46.2	35.1	27.7	24.2	18.1	13.3
35°	71.5	51.8	38.4	30.2	25.4	18.4	13.3
32.5°	79.9	57.9	41.6	32.8	26.7	18.7	13.3
30°	89.6	64.1	44.9	35.3	27.9	19.0	13.3
27.5°	99.1	70.1	49.3	37.9	29.2	19.3	13.3
25°	108.4	76.1	53.8	40.6	30.5	19.6	13.3
22.5°	117.4	82.2	58.2	43.2	31.7	19.8	13.3
20°	126.1	88.7	62.5	45.9	33.0	20.1	13.3
17.5°	134.8	95.1	66.7	48.5	34.3	20.3	13.3
15°	143.2	101.1	70.8	51.1	35.6	20.6	13.3
12.5°	151.2	106.8	74.7	53.7	36.8	20.8	13.3
10°	158.6	112.3	78.5	56.2	38.1	21.0	13.3
7.5°	165.5	117.4	82.2	58.7	39.2	21.3	13.3
5°	171.8	122.2	85.6	61.0	40.3	21.5	13.3
2.5°	177.5	126.6	88.9	63.3	41.4	21.6	13.3
0°	182.7	130.7	92.0	65.4	42.4	21.8	13.3
-2.5°	190.5	136.7	96.3	68.3	44.2	22.6	13.3
-5°	197.7	142.3	100.3	71.0	45.9	23.5	13.3
-7.5°	204.1	147.4	104.1	73.6	47.6	24.2	13.3
-10°	209.9	152.1	107.7	76.0	49.1	25.0	13.3
-12.5°	214.9	156.2	110.9	78.3	50.6	25.8	13.3
-15°	219.1	159.9	113.9	80.4	51.9	26.5	13.3
-17.5°	222.5	163.0	116.6	82.3	53.1	27.1	13.3
-20°	225.6	165.5	118.9	84.0	54.3	27.8	13.3



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 CATALOG NUMBER: EPH-LS-08-0680N-57-70-5S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	228.7	167.5	121.0	85.6	55.3	28.4	13.3
-25°	230.9	169.9	122.6	86.9	56.2	28.9	13.3
-27.5°	232.2	172.1	124.0	88.1	56.9	29.4	13.3
-30°	232.7	173.7	125.1	89.1	57.6	29.9	13.3
-32.5°	232.2	174.8	127.2	89.8	58.1	30.3	13.3
-35°	232.3	175.4	129.0	90.3	58.5	30.7	13.3
-37.5°	232.2	176.0	130.4	90.7	58.8	31.0	13.3
-40°	231.5	177.3	131.4	90.8	58.9	31.3	13.3
-42.5°	230.2	178.2	132.4	91.0	58.9	31.5	13.3
-45°	228.2	178.6	133.1	91.5	58.8	31.6	13.3
-47.5°	225.4	178.6	133.3	91.8	58.5	31.7	13.3
-50°	224.4	178.1	133.2	91.8	58.1	31.8	13.3
-52.5°	223.2	177.3	132.5	91.7	57.6	31.8	13.3
-55°	221.3	175.7	131.5	91.2	57.0	31.7	13.3
-57.5°	218.9	173.5	130.0	90.6	56.2	31.6	13.3
-60°	215.8	170.9	128.2	89.6	55.3	31.4	13.3
-62.5°	211.8	167.7	126.3	88.5	54.6	31.2	13.3
-65°	207.1	164.1	124.2	87.0	53.7	30.9	13.3
-67.5°	201.9	160.2	121.7	85.4	52.7	30.6	13.3
-70°	196.1	155.9	118.8	83.5	51.5	30.3	13.3
-72.5°	189.2	151.1	115.7	81.7	50.3	29.9	13.3
-75°	181.7	145.7	112.2	79.7	48.9	29.4	13.3
-77.5°	173.5	140.0	109.0	77.6	47.4	28.9	13.3
-80°	164.8	134.8	105.6	75.2	45.8	28.4	13.3
-82.5°	158.0	129.8	101.9	72.7	44.1	27.9	13.3
-85°	151.3	124.5	98.0	70.0	42.4	27.3	13.3
-87.5°	144.2	119.0	93.9	67.2	40.6	26.6	13.3
-90°	10.9	10.9	10.9	10.9	10.9	12.1	13.3

(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

