

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



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: LUMARK

Report Number: P622922 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **LSF65-XX-PC-45W-7040**

Issue Date: 10/4/2022

Test Information

Test Method: LM-79-08
Report Number: P622922 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (2022-09-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/4/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LSF65-XX-PC-45W-7040
Description: Flood light with selectable wattage and CCT
Light Source: (1) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

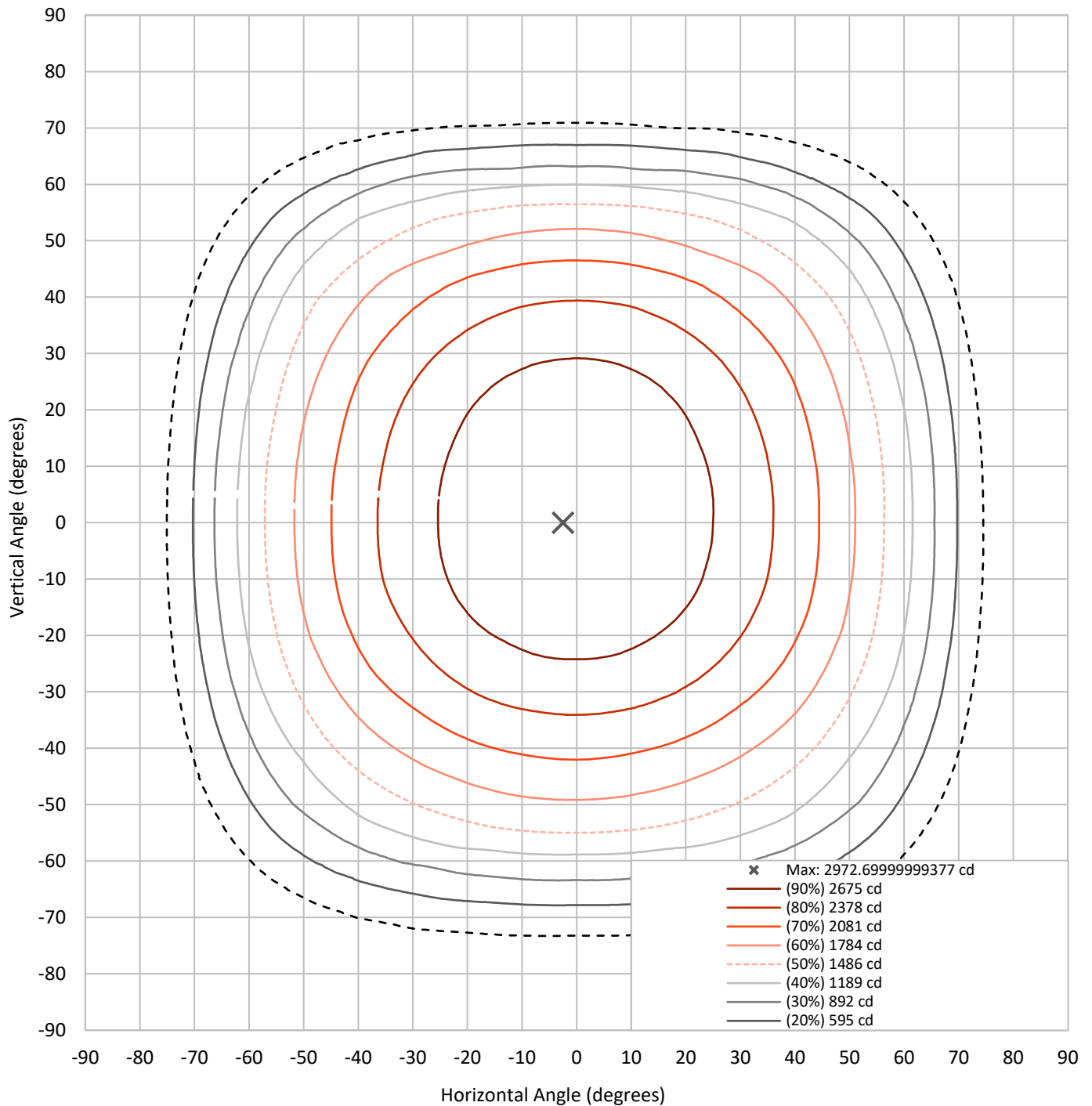
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	8050 lumens	Max Intensity:	2972.7 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	169.5 lumens/watt		
Luminous Opening:	Rectangular (W 0.12m x L: 0.2m x H: 0m)		
Beam Angle (50%):	113.4°H x 111.6°V	Field Angle (10%):	149.4°H x 144.2°V
Beam Lumens:	6458.2 lumens	Field Lumens:	7930.8 lumens
Beam Efficiency:	80.2%	Field Efficiency:	98.5%
Input Watts (W):	47.5		
Input Voltage (V):	120		
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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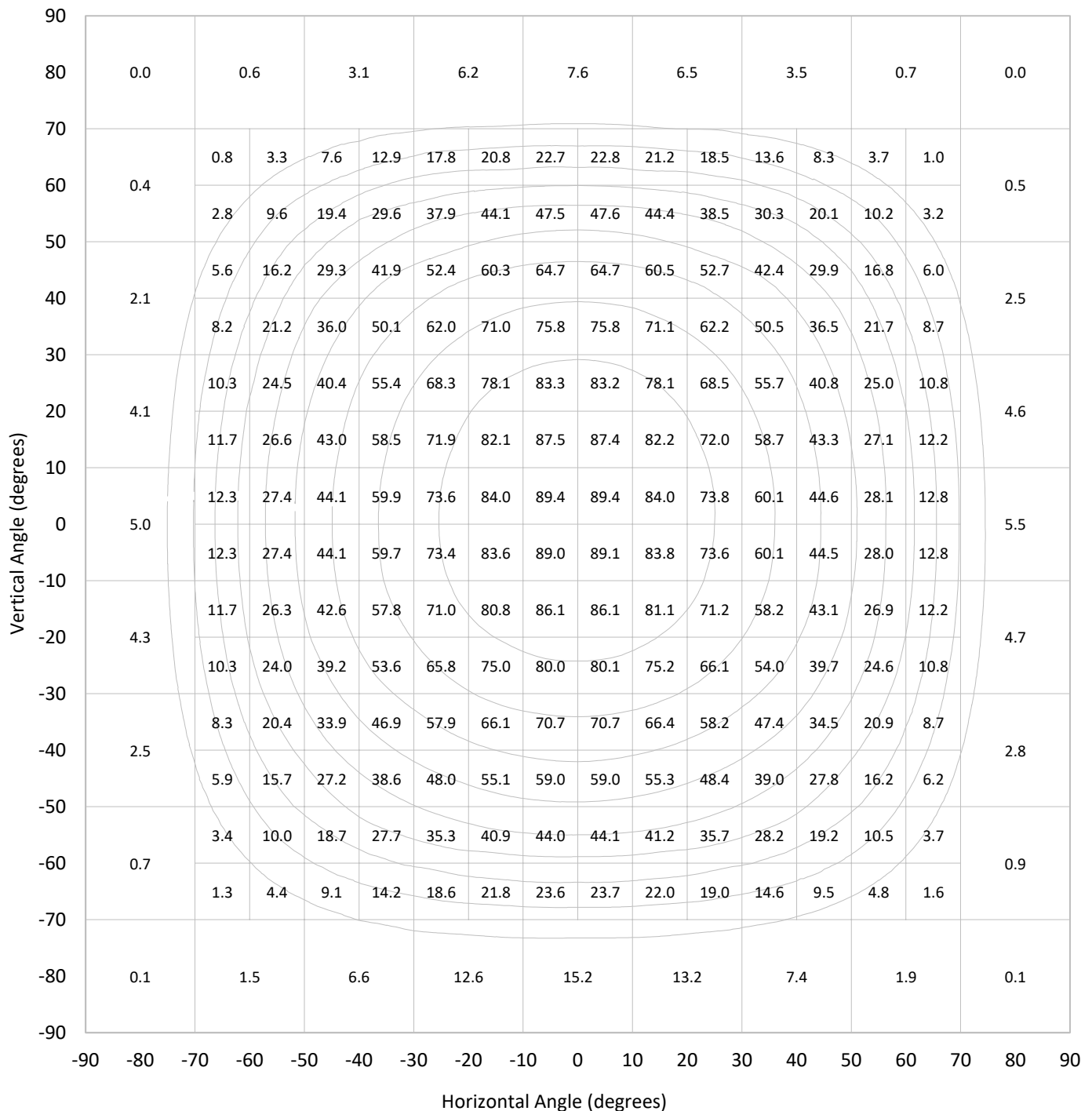
Iso-Candela Plot





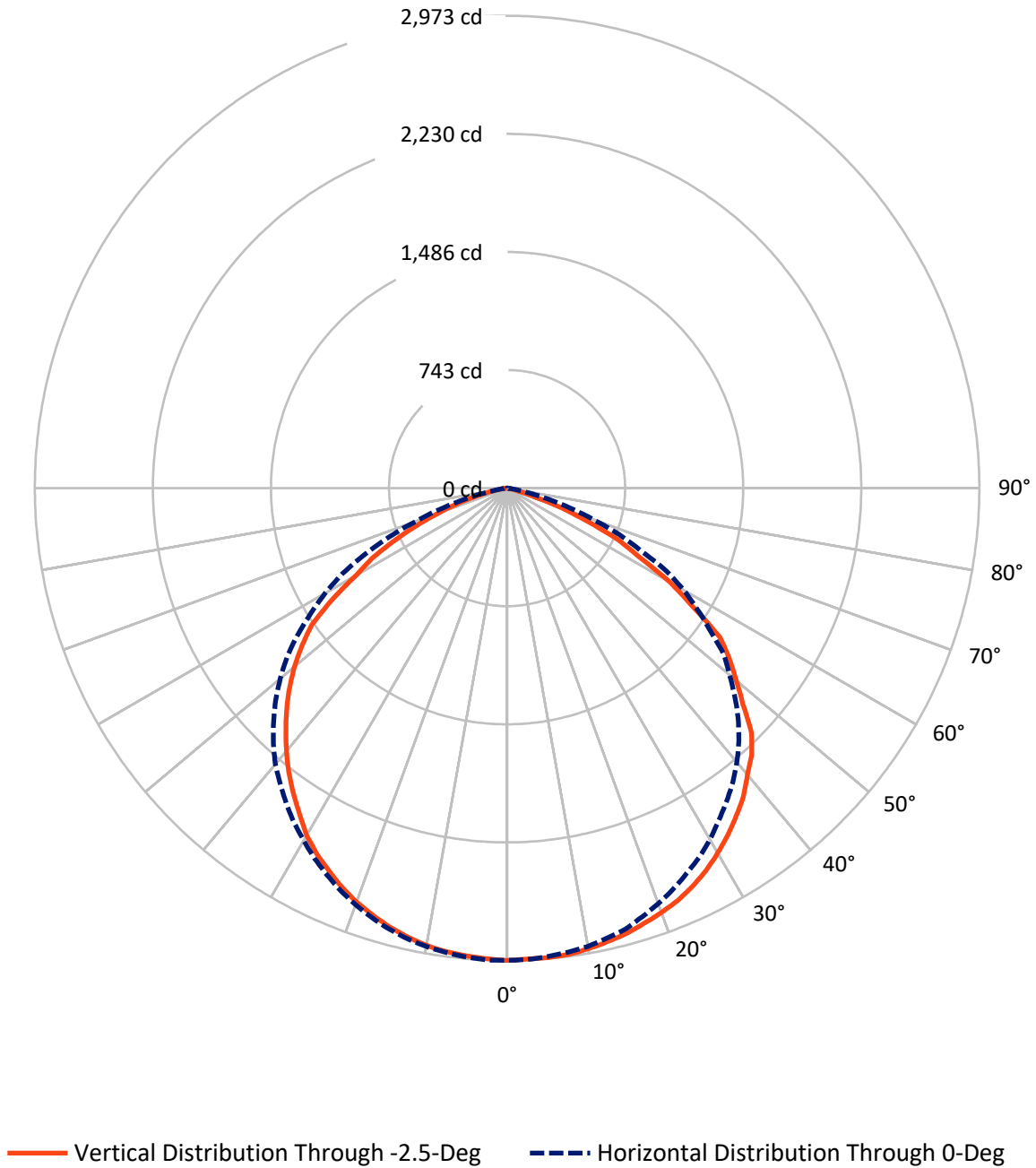
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Lumen Table



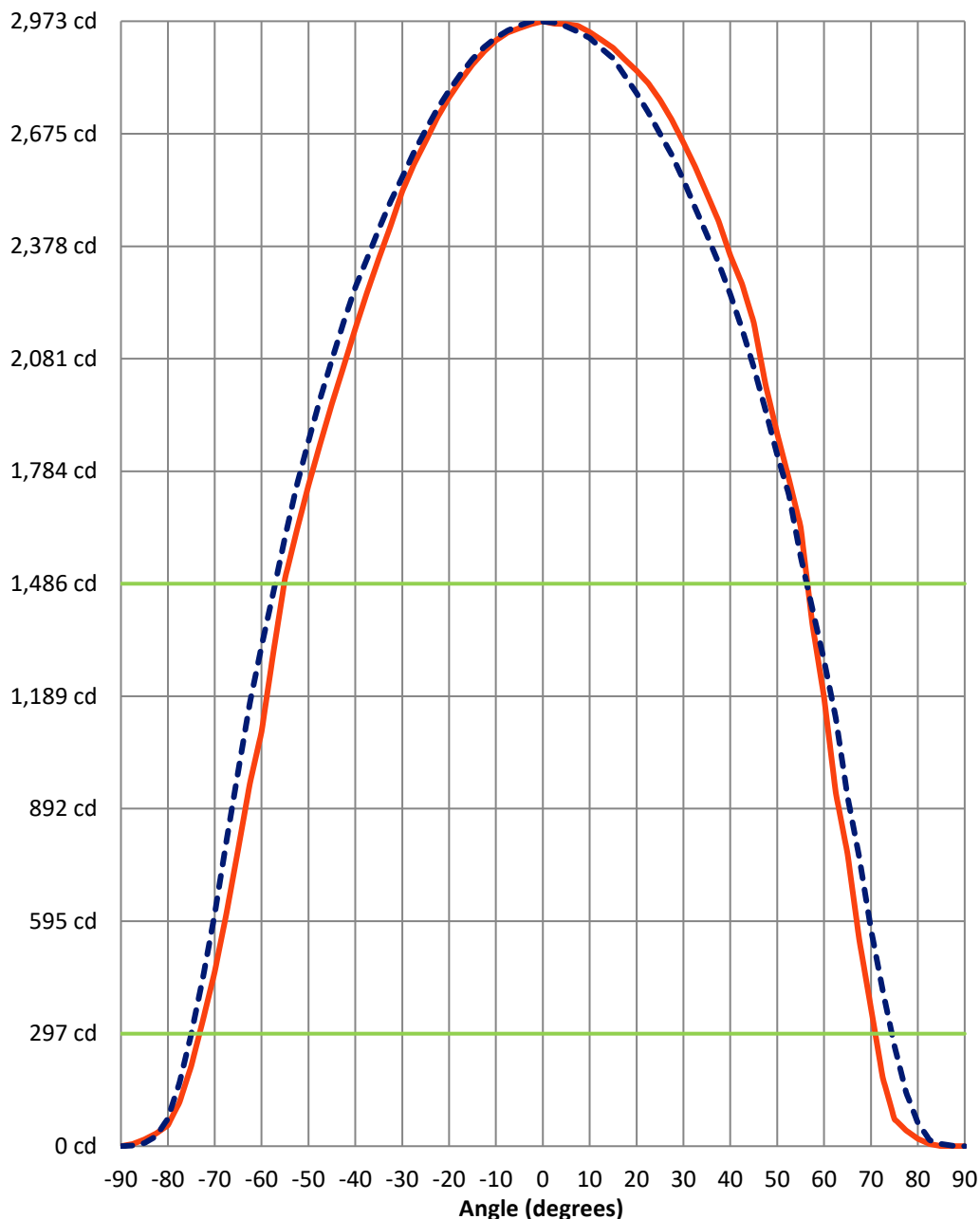
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 113.4°
 V Angle: 111.6°
 Lumens: 6458.2
 Efficiency: 80.2%

Field:
 H Angle: 149.4°
 V Angle: 144.2°
 Lumens: 7930.8
 Efficiency: 98.5%

Spill:
 Lumens: 119.2
 Efficiency: 1.5%

— 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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4
85°	0.0	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.3	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.9
80°	0.0	0.4	0.6	0.7	0.8	0.8	0.8	0.9	1.7	2.2	2.7
77.5°	0.0	0.4	0.8	0.8	0.9	1.1	1.6	2.8	3.7	4.8	6.1
75°	0.0	0.5	0.8	0.9	1.2	1.8	3.4	4.8	6.2	7.8	9.9
72.5°	0.0	0.6	0.9	1.1	1.5	3.2	5.1	6.8	8.7	11.9	15.3
70°	0.0	0.7	1.0	1.4	2.5	4.7	6.9	9.0	13.0	17.5	24.9
67.5°	0.0	0.8	1.1	1.6	3.6	6.2	8.8	12.9	18.3	28.5	43.1
65°	0.0	0.8	1.2	2.1	4.8	7.9	11.7	17.5	28.1	46.6	66.4
62.5°	0.0	0.9	1.3	2.9	6.0	9.9	15.5	22.4	44.9	67.5	93.1
60°	0.0	0.9	1.5	3.6	7.2	12.4	19.6	37.9	63.3	88.9	131.6
57.5°	0.0	1.0	1.7	4.3	9.0	15.5	23.7	53.6	81.7	121.9	179.0
55°	0.0	1.0	1.8	5.2	10.8	18.7	36.2	68.8	104.8	163.1	225.5
52.5°	0.0	1.0	2.1	6.1	12.7	22.0	48.5	84.0	134.2	205.0	282.6
50°	0.0	1.1	2.5	7.0	15.0	25.2	60.8	101.5	171.4	248.2	334.5
47.5°	0.0	1.1	2.9	8.0	17.3	34.3	72.9	125.3	207.8	293.8	388.5
45°	0.0	1.1	3.3	9.3	19.6	43.0	85.6	151.4	241.6	337.2	449.1
42.5°	0.0	1.2	3.7	10.7	21.9	51.8	98.0	179.4	276.1	381.6	509.6
40°	0.0	1.2	4.0	12.0	24.1	60.6	115.9	205.9	309.5	426.4	551.2
37.5°	0.0	1.2	4.4	13.2	26.3	68.9	132.9	231.0	342.3	475.3	602.7
35°	0.0	1.3	4.8	14.6	30.7	77.8	151.5	255.9	374.2	514.7	653.7
32.5°	0.0	1.3	5.2	16.0	35.9	86.7	170.4	280.3	404.6	544.8	701.5
30°	0.0	1.4	5.6	17.3	40.6	95.2	187.8	303.4	436.1	580.5	746.2
27.5°	0.0	1.5	6.0	18.5	45.0	104.0	204.0	325.7	468.8	616.3	787.6
25°	0.0	1.5	6.4	19.6	49.3	114.0	218.7	346.3	497.6	649.8	817.0
22.5°	0.0	1.6	6.7	20.7	53.6	123.2	232.0	364.9	517.8	680.7	844.4
20°	0.0	1.6	7.0	21.6	57.6	131.5	244.5	380.9	536.3	708.5	874.8
17.5°	0.0	1.6	7.3	22.5	61.1	138.9	256.6	394.8	553.5	733.3	900.9
15°	0.0	1.7	7.5	23.3	64.2	146.0	267.2	406.5	570.8	754.9	923.9
12.5°	0.0	1.7	7.7	24.1	66.8	152.6	276.2	417.6	585.1	773.2	946.3
10°	0.0	1.7	7.9	24.7	69.0	158.1	283.5	428.4	596.4	786.0	964.1
7.5°	0.0	1.8	8.1	25.2	70.7	162.4	289.3	436.7	604.9	795.2	977.4
5°	0.0	1.8	8.2	25.6	72.0	165.5	293.3	442.3	610.4	801.6	986.1
2.5°	0.0	1.8	8.3	25.9	72.8	167.5	295.8	445.3	613.2	805.2	990.3
0°	0.0	1.8	8.3	26.1	73.1	168.2	296.5	445.8	613.3	805.8	989.9
-2.5°	0.0	1.8	8.4	26.3	73.7	168.9	296.5	446.0	613.8	805.2	990.2
-5°	0.0	1.8	8.5	26.5	73.7	168.4	294.9	443.8	611.5	801.6	986.0
-7.5°	0.0	1.8	8.5	26.5	73.3	166.7	291.6	439.0	606.6	794.9	977.3
-10°	0.0	1.8	8.5	26.4	72.4	164.0	286.9	431.8	598.8	785.3	964.2
-12.5°	0.0	1.8	8.4	26.1	71.0	160.1	280.6	422.3	588.2	772.1	946.7
-15°	0.0	1.8	8.3	25.7	69.1	155.1	272.9	412.5	574.7	754.1	924.8
-17.5°	0.0	1.8	8.2	25.2	66.7	149.6	263.8	401.9	558.4	733.0	902.3
-20°	0.0	1.8	8.0	24.5	63.9	143.5	253.4	389.2	541.3	708.9	876.9

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Scaled Data Report



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CATALOG NUMBER: LSF65-XX-PC-45W-7040

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	1.8	7.8	23.8	60.5	136.3	242.8	374.4	522.4	682.7	847.2
-25°	0.0	1.7	7.5	23.0	56.6	128.1	231.6	356.5	501.4	654.1	817.4
-27.5°	0.0	1.7	7.2	22.2	52.9	118.9	219.1	336.0	475.6	623.0	784.8
-30°	0.0	1.6	6.8	21.2	49.1	110.6	205.5	313.5	447.3	589.0	745.3
-32.5°	0.0	1.6	6.4	20.2	44.8	102.1	190.9	292.8	419.0	554.0	703.5
-35°	0.0	1.5	5.9	19.0	40.1	93.0	175.1	272.2	390.4	521.7	660.5
-37.5°	0.0	1.5	5.4	17.7	35.9	83.9	158.7	251.2	358.8	485.2	612.9
-40°	0.0	1.5	5.1	16.4	33.4	75.6	142.0	230.3	324.7	444.9	563.9
-42.5°	0.0	1.4	4.8	15.0	30.6	66.8	124.1	208.2	294.9	402.6	520.6
-45°	0.0	1.4	4.5	13.5	27.6	58.1	110.1	185.1	267.1	358.6	467.7
-47.5°	0.0	1.4	4.1	11.9	25.3	49.7	95.4	161.3	239.4	314.0	412.9
-50°	0.0	1.3	3.7	10.6	23.0	40.7	82.4	136.6	209.6	279.6	360.3
-52.5°	0.0	1.3	3.3	9.4	20.7	35.9	69.2	116.2	178.7	244.6	309.9
-55°	0.0	1.2	3.0	8.0	18.2	30.7	56.9	97.2	146.9	208.8	270.0
-57.5°	0.0	1.2	2.8	6.7	15.7	26.9	44.2	80.3	119.2	172.0	229.0
-60°	0.0	1.1	2.5	5.9	13.1	23.5	36.9	63.4	95.6	134.2	187.1
-62.5°	0.0	1.1	2.3	5.1	10.9	20.1	30.0	46.9	75.1	105.5	144.4
-65°	0.0	1.0	2.0	4.3	8.6	16.6	25.7	36.9	56.0	81.4	109.0
-67.5°	0.0	1.0	1.8	3.6	6.8	13.2	21.4	29.4	41.3	59.7	81.7
-70°	0.0	0.9	1.7	3.1	5.6	9.9	16.9	23.8	31.0	42.4	58.1
-72.5°	0.0	0.8	1.5	2.6	4.4	7.4	12.4	18.6	24.1	30.7	40.0
-75°	0.0	0.7	1.4	2.2	3.6	5.7	8.5	13.2	18.3	22.9	28.1
-77.5°	0.0	0.5	1.2	1.9	2.8	4.3	6.3	8.8	12.4	16.6	20.4
-80°	0.0	0.4	1.0	1.5	2.2	3.2	4.5	6.0	8.1	10.6	13.6
-82.5°	0.0	0.3	0.7	1.2	1.7	2.3	3.1	4.1	5.2	6.4	8.1
-85°	0.0	0.2	0.5	0.8	1.2	1.6	2.1	2.6	3.1	3.8	4.5
-87.5°	0.0	0.1	0.2	0.4	0.6	0.8	1.0	1.3	1.5	1.8	2.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622922 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: LSF65-XX-PC-45W-7040

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4
82.5°	1.0	1.0	1.1	1.7	2.1	2.3	2.4	2.7	3.2	3.8	4.3
80°	3.6	4.6	5.4	6.2	6.9	7.5	8.1	8.8	10.3	11.5	12.4
77.5°	7.5	8.9	10.1	11.5	13.8	15.8	18.5	20.8	23.1	25.4	27.4
75°	11.9	14.7	17.8	21.9	26.2	32.4	36.9	45.2	53.0	58.4	61.2
72.5°	19.2	25.3	33.4	43.9	54.9	66.6	78.7	88.9	95.6	103.9	109.5
70°	34.5	48.6	62.4	78.6	96.2	115.1	133.6	154.3	173.3	193.1	221.7
67.5°	60.0	76.7	100.6	129.2	155.6	185.7	217.9	257.6	287.8	308.7	354.3
65°	88.7	119.9	157.4	190.0	239.8	284.8	322.9	371.5	431.8	464.6	494.4
62.5°	131.2	174.9	224.0	282.3	332.0	387.2	461.5	510.2	544.2	598.3	655.3
60°	182.5	239.6	306.2	366.9	448.0	519.5	573.8	635.9	703.7	772.2	838.4
57.5°	239.4	311.8	383.5	485.8	562.8	631.2	707.6	784.2	862.6	953.0	1036.9
55°	304.0	381.5	490.1	588.8	672.7	757.0	839.9	927.0	1045.1	1139.5	1186.7
52.5°	364.5	471.0	576.1	686.4	785.5	873.4	974.6	1096.5	1184.6	1251.8	1308.7
50°	433.6	548.1	663.9	781.2	887.3	996.2	1124.2	1213.0	1284.9	1352.3	1414.8
47.5°	509.9	623.5	748.8	865.5	989.1	1129.4	1224.5	1302.5	1374.6	1449.5	1519.9
45°	565.8	698.7	826.6	947.3	1105.1	1221.2	1305.7	1382.7	1472.9	1553.0	1639.4
42.5°	631.7	770.7	895.6	1054.6	1186.7	1293.8	1377.4	1480.7	1568.6	1656.9	1745.6
40°	694.5	831.5	975.5	1133.1	1254.9	1354.5	1470.1	1568.7	1655.0	1745.4	1823.9
37.5°	754.1	889.3	1058.3	1193.2	1312.3	1424.4	1548.9	1640.6	1730.5	1815.6	1890.9
35°	806.1	954.9	1117.3	1256.0	1365.5	1493.7	1605.5	1701.3	1795.2	1878.2	1960.8
32.5°	845.2	1024.3	1165.8	1302.3	1424.2	1545.8	1658.3	1760.6	1851.6	1944.8	2020.0
30°	895.4	1069.6	1220.7	1347.7	1473.5	1597.7	1711.5	1810.8	1910.3	1998.7	2077.1
27.5°	945.1	1108.0	1263.7	1390.5	1512.8	1646.7	1758.3	1858.7	1959.2	2044.6	2128.2
25°	993.8	1146.6	1298.6	1425.9	1555.0	1690.2	1798.7	1901.7	1995.4	2086.9	2171.4
22.5°	1032.2	1189.9	1333.6	1453.1	1599.2	1727.0	1835.9	1936.1	2031.3	2123.7	2204.2
20°	1062.2	1228.2	1362.7	1483.7	1638.9	1758.6	1866.4	1965.7	2061.4	2153.3	2237.0
17.5°	1089.0	1252.4	1387.2	1513.6	1668.4	1786.1	1888.5	1991.6	2088.9	2180.3	2266.1
15°	1110.8	1273.5	1408.1	1544.0	1693.9	1809.2	1910.6	2012.9	2110.4	2204.6	2290.4
12.5°	1129.0	1291.0	1425.9	1567.7	1713.0	1827.4	1931.5	2034.0	2130.2	2225.4	2307.1
10°	1144.3	1304.4	1440.9	1586.2	1728.0	1840.9	1949.4	2051.8	2149.6	2244.1	2322.6
7.5°	1157.6	1314.0	1452.0	1599.5	1738.6	1851.6	1962.7	2065.6	2163.9	2257.0	2334.8
5°	1166.5	1320.0	1459.3	1607.8	1744.8	1859.2	1971.0	2074.3	2173.0	2265.5	2342.5
2.5°	1171.0	1322.3	1462.9	1611.1	1747.0	1863.2	1975.4	2078.4	2177.5	2269.6	2346.0
0°	1171.3	1321.2	1463.0	1609.2	1745.4	1862.8	1975.4	2078.0	2177.3	2269.3	2345.2
-2.5°	1170.2	1320.4	1462.0	1608.0	1744.5	1862.2	1974.5	2077.5	2177.0	2269.0	2345.7
-5°	1165.0	1316.2	1457.4	1601.8	1740.0	1857.1	1969.2	2072.6	2172.1	2264.1	2342.1
-7.5°	1155.9	1308.5	1449.1	1590.9	1731.9	1848.2	1959.7	2063.1	2162.6	2254.8	2334.7
-10°	1142.9	1297.3	1436.9	1575.5	1719.3	1835.8	1945.5	2048.8	2148.4	2241.0	2323.5
-12.5°	1127.7	1282.5	1419.9	1555.6	1701.9	1819.4	1926.8	2030.2	2129.4	2222.2	2304.8
-15°	1109.5	1263.8	1399.4	1532.9	1680.5	1795.0	1905.0	2008.0	2103.5	2192.9	2273.1
-17.5°	1087.9	1241.2	1375.3	1505.6	1648.9	1766.2	1879.5	1978.2	2070.0	2156.9	2237.3
-20°	1061.2	1215.5	1347.3	1476.1	1613.2	1735.2	1844.9	1941.1	2032.4	2118.9	2197.5



REPORT NUMBER: P622922 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF65-XX-PC-45W-7040

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1031.2	1181.2	1315.8	1443.8	1570.8	1694.3	1799.0	1898.1	1992.8	2077.4	2151.0
-25°	993.6	1143.6	1280.6	1403.5	1524.8	1646.8	1746.2	1852.5	1946.1	2029.5	2105.6
-27.5°	946.5	1105.8	1238.1	1356.8	1476.9	1594.5	1697.4	1795.6	1890.2	1979.3	2052.5
-30°	898.4	1061.8	1190.3	1304.6	1426.0	1540.6	1642.9	1730.7	1830.5	1916.7	1989.1
-32.5°	848.0	1013.6	1135.8	1251.0	1366.0	1481.6	1584.3	1671.0	1756.5	1847.3	1920.3
-35°	802.7	948.3	1082.8	1196.3	1298.4	1417.1	1523.1	1609.1	1686.5	1768.5	1845.1
-37.5°	750.6	886.1	1026.4	1133.6	1234.1	1339.8	1452.9	1545.4	1618.9	1690.4	1763.9
-40°	695.3	826.5	956.5	1072.3	1169.3	1259.9	1368.7	1468.4	1548.2	1616.1	1681.0
-42.5°	640.3	763.4	886.9	1006.6	1100.6	1187.1	1277.8	1381.7	1466.1	1538.3	1600.4
-45°	581.0	697.0	816.8	927.4	1030.4	1115.3	1200.8	1286.7	1377.1	1449.1	1514.9
-47.5°	526.4	633.5	739.4	854.3	950.7	1039.9	1122.2	1202.4	1280.9	1358.5	1419.6
-50°	458.1	567.1	667.5	767.9	871.8	949.0	1035.0	1115.0	1189.6	1260.9	1327.8
-52.5°	393.2	495.8	595.1	684.8	771.5	850.5	927.6	1015.1	1089.7	1161.6	1221.2
-55°	334.4	413.0	518.1	607.8	677.4	747.6	813.2	882.4	979.6	1043.2	1098.6
-57.5°	285.1	346.0	418.2	518.1	591.6	651.8	708.8	764.0	816.3	894.9	967.1
-60°	239.3	290.0	344.3	406.5	484.4	556.5	612.9	660.0	705.2	744.2	797.3
-62.5°	192.3	239.4	284.9	329.7	379.0	434.5	498.5	562.4	602.3	636.6	671.2
-65°	144.4	187.3	229.4	264.7	304.2	343.6	382.4	425.4	472.5	528.8	558.2
-67.5°	105.2	134.5	171.7	204.1	233.7	263.9	304.2	333.6	360.4	384.1	423.5
-70°	76.6	95.2	118.2	143.8	171.0	195.6	217.6	237.0	273.6	302.9	318.6
-72.5°	51.9	67.3	81.3	94.1	112.2	131.2	151.7	169.9	186.1	202.8	220.4
-75°	34.8	44.2	53.0	63.0	72.4	81.9	91.4	105.2	117.1	128.5	138.2
-77.5°	23.9	28.2	33.4	38.3	44.2	49.3	56.0	62.2	67.5	72.7	77.5
-80°	16.8	19.7	22.0	24.2	26.6	29.6	32.1	34.4	37.8	40.7	42.9
-82.5°	10.1	12.4	14.2	15.8	17.5	19.0	20.5	21.9	23.1	24.2	25.3
-85°	5.4	6.4	7.1	7.8	8.6	9.7	10.7	11.7	12.5	13.3	14.0
-87.5°	2.5	2.8	3.1	3.4	3.7	4.0	4.2	4.5	4.6	4.8	4.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622922 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: LSF65-XX-PC-45W-7040

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
85°	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	4.8	5.3	5.7	5.8	5.8	5.9	5.9	5.8	5.7	5.8	5.9
80°	13.4	14.5	15.4	16.2	17.0	17.7	18.3	18.8	19.0	19.4	19.7
77.5°	30.6	33.0	33.6	34.7	36.2	37.4	38.4	39.2	39.8	40.6	41.2
75°	62.0	60.9	58.0	58.9	63.4	68.9	76.4	84.4	90.0	89.8	87.2
72.5°	115.0	123.1	132.6	150.6	165.4	171.2	169.5	164.0	155.2	159.0	170.0
70°	240.8	252.4	269.5	288.4	304.4	312.9	318.6	322.4	327.5	336.1	346.8
67.5°	385.1	404.1	428.8	459.0	468.5	469.2	475.8	501.1	518.5	534.6	544.2
65°	528.2	551.1	600.8	661.8	684.3	702.8	717.2	727.5	733.5	742.3	755.6
62.5°	718.3	767.3	811.0	848.3	875.5	893.9	901.0	899.8	894.6	894.6	909.8
60°	901.3	961.0	1000.7	1022.6	1030.4	1052.5	1094.2	1127.0	1144.2	1150.7	1163.9
57.5°	1092.1	1117.8	1133.4	1173.6	1237.5	1286.7	1304.2	1305.0	1315.8	1341.0	1366.4
55°	1215.9	1270.5	1340.5	1400.0	1443.9	1465.6	1496.8	1533.4	1563.1	1590.7	1605.5
52.5°	1366.8	1424.8	1476.7	1523.4	1562.5	1599.2	1632.5	1663.9	1693.0	1717.0	1735.0
50°	1476.2	1538.7	1596.7	1643.2	1674.3	1708.7	1747.6	1781.7	1810.7	1832.2	1850.0
47.5°	1596.9	1669.6	1717.6	1755.1	1788.8	1829.6	1878.1	1916.3	1940.3	1956.5	1974.5
45°	1728.7	1779.9	1821.8	1865.3	1923.1	1983.2	2019.8	2047.7	2077.2	2108.7	2137.0
42.5°	1820.2	1871.4	1921.4	1983.8	2041.1	2085.2	2122.0	2158.0	2190.3	2218.6	2243.2
40°	1891.2	1952.4	2016.4	2073.5	2120.0	2163.0	2198.3	2240.3	2275.4	2300.3	2320.0
37.5°	1963.6	2031.8	2091.8	2141.3	2187.5	2237.9	2286.9	2321.1	2353.4	2381.8	2406.5
35°	2032.2	2097.8	2151.5	2207.1	2264.0	2310.8	2357.9	2394.0	2427.1	2456.4	2476.9
32.5°	2093.5	2155.2	2214.7	2271.7	2328.9	2377.6	2422.3	2460.4	2493.2	2521.5	2546.1
30°	2147.7	2211.2	2271.9	2333.7	2388.6	2442.5	2483.0	2525.2	2561.7	2588.9	2611.7
27.5°	2197.1	2262.2	2327.9	2387.0	2448.0	2493.2	2543.1	2583.1	2619.5	2645.2	2672.0
25°	2241.4	2310.7	2373.1	2433.9	2489.8	2546.9	2590.7	2631.4	2669.9	2700.1	2723.0
22.5°	2280.4	2350.3	2409.2	2470.3	2531.1	2585.5	2633.7	2673.8	2710.5	2742.3	2766.3
20°	2314.7	2379.1	2441.4	2503.9	2564.0	2617.8	2666.8	2709.8	2747.9	2776.9	2802.3
17.5°	2340.8	2405.2	2469.2	2532.8	2590.0	2646.0	2697.0	2741.8	2780.4	2808.4	2831.2
15°	2362.2	2428.8	2492.6	2557.6	2613.3	2672.9	2724.1	2769.0	2805.7	2835.7	2856.6
12.5°	2380.3	2446.7	2515.0	2576.5	2639.8	2694.9	2744.8	2791.4	2828.4	2856.3	2883.5
10°	2395.2	2460.3	2531.1	2597.8	2657.1	2712.4	2763.5	2807.1	2840.9	2877.1	2898.9
7.5°	2407.9	2474.5	2543.9	2612.7	2673.5	2724.7	2775.8	2821.7	2857.7	2889.8	2913.9
5°	2416.8	2486.2	2554.0	2622.1	2680.9	2735.4	2782.9	2830.2	2863.6	2894.1	2918.8
2.5°	2422.0	2493.7	2559.6	2626.3	2685.0	2741.5	2790.3	2833.5	2869.5	2898.5	2924.9
0°	2422.9	2495.7	2560.4	2626.4	2685.0	2741.1	2789.6	2833.6	2872.9	2904.6	2929.4
-2.5°	2421.4	2493.4	2559.7	2623.8	2683.8	2739.3	2787.3	2831.1	2868.1	2897.9	2925.9
-5°	2415.5	2486.5	2553.6	2615.6	2677.6	2731.2	2778.8	2822.9	2858.0	2888.0	2914.9
-7.5°	2405.6	2474.6	2541.9	2604.0	2666.2	2717.1	2768.0	2812.1	2846.9	2875.0	2900.3
-10°	2391.9	2457.1	2524.0	2588.0	2646.4	2698.9	2752.2	2795.4	2827.8	2855.0	2880.3
-12.5°	2370.5	2432.6	2499.2	2563.7	2620.6	2677.2	2726.8	2768.1	2802.1	2826.6	2850.7
-15°	2342.8	2403.3	2467.5	2533.1	2592.6	2645.4	2690.8	2734.5	2770.1	2795.2	2816.7
-17.5°	2310.2	2369.8	2429.7	2495.0	2553.2	2604.9	2652.7	2693.8	2727.1	2753.5	2773.2
-20°	2270.0	2332.6	2388.6	2448.5	2507.6	2560.2	2605.5	2645.8	2680.1	2704.9	2727.9



REPORT NUMBER: P622922 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF65-XX-PC-45W-7040

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2223.4	2290.1	2345.8	2400.0	2454.3	2507.4	2553.8	2591.7	2623.7	2653.0	2677.2
-25°	2172.2	2236.7	2297.5	2350.4	2400.6	2447.8	2493.8	2532.3	2562.2	2593.5	2619.6
-27.5°	2112.3	2175.0	2237.6	2294.3	2343.8	2389.0	2432.7	2470.1	2498.4	2530.0	2554.0
-30°	2051.1	2107.0	2166.5	2225.6	2277.7	2321.5	2362.8	2403.3	2435.6	2459.7	2482.8
-32.5°	1981.9	2037.0	2089.9	2144.8	2200.2	2246.2	2284.5	2319.6	2352.9	2379.3	2397.7
-35°	1908.3	1962.2	2010.5	2064.5	2114.5	2163.0	2200.7	2234.1	2264.8	2289.6	2308.3
-37.5°	1829.5	1883.0	1934.3	1982.8	2029.8	2075.2	2112.7	2147.4	2175.5	2202.4	2221.7
-40°	1744.7	1802.1	1852.5	1901.2	1944.7	1981.7	2020.8	2055.6	2082.3	2105.1	2123.4
-42.5°	1658.5	1714.2	1765.9	1812.0	1854.2	1892.7	1927.9	1957.4	1985.0	2008.4	2025.8
-45°	1572.1	1624.3	1673.3	1717.8	1756.3	1793.9	1831.0	1862.3	1888.4	1908.5	1925.3
-47.5°	1476.9	1531.7	1578.3	1620.4	1659.0	1693.8	1728.8	1760.3	1789.1	1811.2	1827.3
-50°	1379.1	1426.4	1475.7	1519.6	1556.3	1590.6	1623.9	1654.3	1681.2	1705.1	1722.3
-52.5°	1277.4	1327.1	1366.3	1404.6	1442.7	1480.1	1512.2	1539.6	1564.2	1584.6	1601.3
-55°	1136.0	1190.2	1251.4	1296.5	1326.5	1349.7	1382.8	1416.5	1439.7	1458.4	1474.1
-57.5°	1000.4	1031.6	1060.0	1104.9	1161.7	1198.7	1212.9	1219.8	1236.2	1262.5	1286.1
-60°	854.1	903.0	923.5	938.0	960.3	993.1	1019.7	1045.8	1058.1	1062.6	1076.1
-62.5°	710.6	754.0	790.1	815.3	839.2	865.5	885.3	902.7	917.4	930.0	941.5
-65°	581.6	602.7	632.9	667.2	694.8	712.6	719.5	726.3	736.7	758.8	776.6
-67.5°	461.9	489.0	505.4	519.4	539.1	555.6	570.0	581.8	586.8	592.4	601.2
-70°	333.0	346.0	367.3	398.1	418.2	422.8	425.5	427.8	439.9	453.9	463.3
-72.5°	242.1	262.9	277.6	283.1	286.7	292.3	301.8	312.6	324.0	330.4	331.8
-75°	148.7	160.7	172.9	183.7	191.7	197.5	201.2	203.0	202.9	206.2	209.4
-77.5°	83.2	88.0	91.2	93.8	97.3	99.9	101.7	102.7	103.9	108.3	112.0
-80°	45.2	46.9	47.6	49.0	50.8	52.9	54.1	54.4	54.0	54.5	55.0
-82.5°	26.5	27.7	28.8	29.8	30.5	31.2	31.7	32.2	32.7	33.1	33.4
-85°	14.6	15.2	15.8	16.1	16.5	16.7	17.0	17.2	17.3	17.6	17.7
-87.5°	5.0	5.2	5.3	5.4	5.5	5.6	5.7	5.7	5.8	5.8	5.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622922 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF65-XX-PC-45W-7040

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	5.9	5.9	5.8	5.7	5.7	5.7	5.6	5.5	5.3	5.1	5.1
80°	19.8	19.8	19.7	19.4	19.5	19.4	19.2	18.9	18.4	17.9	17.5
77.5°	41.6	41.7	41.6	41.2	41.3	41.2	40.9	40.3	39.5	38.5	37.6
75°	83.1	78.0	72.1	65.6	70.0	73.9	77.2	79.6	81.0	81.1	80.1
72.5°	177.3	181.2	182.1	180.3	181.4	179.9	175.5	167.7	156.3	149.5	152.8
70°	355.5	361.8	365.0	364.7	364.0	359.4	350.9	338.8	323.1	308.0	295.6
67.5°	548.5	549.3	546.3	539.5	545.5	547.7	546.2	541.3	530.6	510.0	488.6
65°	765.3	771.1	772.8	770.0	771.3	768.2	761.0	750.1	735.8	722.9	710.1
62.5°	930.4	937.4	933.9	922.9	930.8	931.2	920.7	896.2	878.9	879.7	885.9
60°	1174.2	1181.4	1185.3	1185.8	1183.9	1178.6	1170.1	1158.4	1143.6	1132.0	1112.0
57.5°	1378.3	1383.4	1380.5	1368.6	1376.9	1375.7	1365.7	1348.6	1323.3	1302.3	1291.6
55°	1618.5	1629.0	1635.8	1638.2	1635.5	1628.1	1616.7	1602.1	1584.7	1553.1	1520.2
52.5°	1748.4	1757.6	1762.8	1764.0	1761.2	1754.5	1743.9	1728.9	1709.1	1684.7	1656.5
50°	1865.1	1876.1	1882.7	1885.1	1882.4	1875.4	1864.0	1848.3	1828.5	1803.0	1772.4
47.5°	1993.5	2007.3	2013.4	2013.1	2012.3	2005.0	1990.1	1969.5	1949.8	1932.4	1905.7
45°	2154.2	2167.7	2176.2	2178.4	2175.3	2166.1	2152.1	2135.0	2104.8	2072.7	2041.6
42.5°	2259.5	2270.7	2278.3	2282.2	2277.4	2268.9	2256.6	2240.2	2215.5	2184.2	2148.9
40°	2335.8	2347.0	2353.6	2356.1	2353.3	2346.1	2334.1	2316.9	2296.1	2268.1	2232.7
37.5°	2424.2	2436.7	2444.4	2447.8	2444.8	2438.1	2427.0	2408.3	2380.3	2346.6	2318.5
35°	2493.4	2506.8	2516.6	2522.5	2517.5	2508.6	2496.0	2478.7	2454.8	2425.2	2390.1
32.5°	2565.1	2579.0	2588.1	2592.9	2587.9	2578.4	2564.7	2546.0	2520.0	2492.0	2459.6
30°	2631.4	2643.7	2651.9	2655.5	2653.2	2645.3	2630.9	2610.1	2585.4	2558.3	2519.1
27.5°	2692.5	2705.9	2712.5	2714.9	2712.3	2705.6	2691.5	2671.4	2648.0	2618.4	2577.3
25°	2740.6	2755.7	2764.7	2768.5	2765.1	2757.7	2744.7	2722.6	2695.9	2668.0	2630.1
22.5°	2785.9	2800.3	2808.8	2813.1	2810.1	2803.2	2786.4	2766.7	2741.8	2709.1	2670.0
20°	2822.6	2838.0	2842.1	2843.1	2841.5	2837.5	2823.8	2802.1	2774.9	2742.2	2706.2
17.5°	2848.1	2864.6	2871.5	2874.2	2872.0	2866.0	2853.5	2832.6	2806.9	2771.1	2732.3
15°	2875.4	2891.2	2902.1	2903.7	2900.8	2893.3	2881.3	2858.3	2832.7	2802.4	2760.1
12.5°	2901.3	2914.6	2923.4	2926.0	2923.7	2915.8	2905.1	2884.6	2851.7	2822.5	2784.5
10°	2919.8	2934.9	2943.9	2944.0	2940.5	2935.6	2923.0	2902.8	2875.7	2838.2	2803.3
7.5°	2936.1	2951.9	2960.4	2960.6	2954.9	2949.4	2935.4	2916.6	2889.7	2856.1	2815.2
5°	2939.6	2956.1	2965.3	2964.8	2964.2	2959.5	2941.4	2924.1	2897.9	2863.6	2823.9
2.5°	2943.1	2955.9	2966.1	2972.2	2970.1	2959.9	2945.7	2926.5	2901.4	2871.1	2828.8
0°	2948.0	2961.5	2972.7	2971.8	2969.2	2958.9	2944.8	2928.3	2900.9	2874.5	2828.5
-2.5°	2943.2	2955.9	2964.9	2961.9	2956.7	2952.4	2940.5	2918.6	2891.8	2863.2	2821.8
-5°	2936.1	2951.0	2954.4	2951.9	2951.1	2943.3	2932.6	2910.2	2883.5	2849.6	2811.9
-7.5°	2921.2	2934.6	2942.7	2938.3	2940.4	2932.9	2921.1	2897.4	2870.8	2837.1	2803.3
-10°	2900.1	2915.1	2922.1	2920.9	2921.2	2914.6	2898.7	2877.5	2851.6	2820.3	2785.2
-12.5°	2870.6	2884.4	2893.0	2895.6	2891.6	2885.4	2875.7	2850.8	2828.1	2795.6	2754.0
-15°	2834.4	2849.9	2858.4	2860.1	2856.8	2849.5	2836.0	2818.0	2793.2	2758.4	2720.2
-17.5°	2795.5	2812.3	2816.9	2816.1	2813.5	2807.7	2796.6	2779.0	2748.2	2718.6	2682.0
-20°	2749.3	2764.7	2771.3	2773.0	2769.2	2762.4	2749.7	2727.9	2704.5	2669.5	2633.7



REPORT NUMBER: P622922 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF65-XX-PC-45W-7040

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	2698.3	2712.7	2718.4	2719.0	2718.1	2710.6	2698.6	2674.6	2645.9	2616.8	2584.2
-25°	2637.7	2649.7	2655.6	2655.5	2654.2	2647.4	2634.6	2611.1	2586.9	2561.0	2526.3
-27.5°	2574.5	2587.8	2594.5	2595.0	2591.0	2582.4	2568.4	2551.5	2529.9	2497.7	2463.3
-30°	2504.0	2516.6	2522.9	2522.9	2522.7	2516.7	2505.4	2482.7	2455.6	2427.1	2394.4
-32.5°	2411.9	2424.4	2431.1	2431.2	2431.1	2424.2	2411.5	2395.0	2372.9	2341.1	2303.5
-35°	2324.5	2337.8	2345.4	2347.1	2344.2	2335.3	2320.5	2302.2	2281.9	2254.1	2220.9
-37.5°	2236.2	2248.5	2256.1	2258.6	2255.7	2248.0	2235.3	2217.6	2195.0	2167.6	2138.3
-40°	2140.3	2153.0	2160.8	2163.5	2159.8	2150.9	2136.8	2117.9	2097.0	2072.7	2046.1
-42.5°	2041.8	2053.3	2060.3	2062.6	2058.4	2049.5	2036.2	2018.9	2000.9	1978.2	1950.4
-45°	1941.7	1953.9	1961.7	1964.8	1961.2	1953.3	1941.6	1926.7	1905.7	1880.1	1852.2
-47.5°	1840.3	1850.1	1856.0	1857.7	1854.2	1846.6	1834.9	1818.5	1798.5	1776.2	1750.7
-50°	1734.2	1742.2	1746.1	1746.0	1743.6	1737.2	1726.6	1712.1	1693.3	1670.7	1645.1
-52.5°	1613.8	1622.1	1626.3	1626.3	1624.2	1618.1	1607.9	1593.9	1576.5	1557.1	1532.7
-55°	1486.5	1495.2	1500.0	1500.8	1498.2	1491.4	1480.3	1464.9	1445.6	1427.2	1403.3
-57.5°	1297.5	1303.5	1303.3	1295.7	1301.0	1299.1	1291.7	1279.2	1253.3	1224.7	1205.3
-60°	1086.1	1092.5	1095.5	1094.9	1093.3	1088.3	1080.2	1069.0	1055.1	1049.3	1035.8
-62.5°	950.1	955.6	958.1	957.7	956.6	952.5	945.2	934.6	921.7	909.4	895.2
-65°	786.2	788.5	784.6	775.3	783.1	785.6	781.8	770.9	751.9	729.2	719.0
-67.5°	608.0	612.5	614.7	614.8	614.4	611.8	607.0	600.0	590.6	581.9	572.9
-70°	467.0	465.8	460.6	452.4	459.1	462.9	463.0	458.4	448.5	434.4	422.3
-72.5°	333.2	333.9	333.5	331.6	333.0	332.9	331.8	330.1	328.4	321.0	307.5
-75°	211.5	212.5	212.3	211.0	211.1	210.2	208.1	205.0	200.8	196.3	194.1
-77.5°	114.6	116.0	116.4	115.8	115.7	114.7	112.7	109.6	105.4	100.6	98.5
-80°	55.2	55.3	55.1	54.8	54.7	54.5	54.1	53.5	52.7	51.8	51.0
-82.5°	33.5	33.6	33.5	33.4	33.3	33.2	33.0	32.6	32.2	31.6	30.9
-85°	17.8	17.8	17.8	17.7	17.7	17.6	17.5	17.3	17.1	16.8	16.4
-87.5°	5.8	5.8	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622922 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF65-XX-PC-45W-7040

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	5.1	5.0	5.0	4.9	4.8	4.5	4.2	3.8	3.3	2.7	2.0
80°	16.9	16.2	15.3	14.4	13.5	12.5	11.4	10.4	9.9	9.3	8.4
77.5°	36.6	35.4	33.9	32.2	30.8	29.7	27.3	24.4	22.2	19.9	17.6
75°	78.4	75.9	72.8	69.0	64.7	60.5	56.3	52.8	49.8	44.9	38.7
72.5°	154.9	155.9	152.3	140.2	123.9	118.5	111.4	101.0	90.5	80.0	73.7
70°	293.9	292.8	289.9	269.1	243.8	228.5	218.0	198.7	174.8	152.4	126.8
67.5°	463.1	457.8	456.3	441.0	399.1	370.3	351.8	320.9	288.3	260.3	227.6
65°	693.9	674.7	652.4	627.3	578.3	534.1	505.6	465.8	432.8	383.6	339.6
62.5°	881.6	860.7	829.8	799.2	767.4	732.9	688.0	629.2	570.3	512.2	481.0
60°	1082.6	1039.1	1014.1	1002.7	966.0	912.2	853.5	803.1	746.5	674.3	602.4
57.5°	1284.9	1259.4	1201.5	1150.5	1118.5	1095.5	1056.7	993.3	906.9	830.5	752.5
55°	1481.2	1450.0	1426.1	1375.5	1308.4	1239.0	1196.5	1160.3	1094.7	999.8	886.5
52.5°	1623.2	1585.4	1546.3	1506.6	1461.0	1406.7	1337.3	1281.6	1227.3	1150.6	1050.4
50°	1737.9	1699.7	1663.8	1627.3	1576.5	1517.6	1459.5	1395.7	1326.2	1261.1	1184.0
47.5°	1865.5	1817.1	1777.4	1742.6	1704.5	1650.3	1572.8	1498.1	1428.7	1350.2	1279.5
45°	2010.9	1970.3	1906.8	1851.5	1807.9	1764.6	1710.4	1615.9	1528.5	1446.2	1360.4
42.5°	2111.9	2079.8	2029.9	1970.1	1908.2	1856.9	1803.2	1727.5	1635.5	1544.3	1448.7
40°	2190.9	2151.3	2107.4	2061.1	2001.7	1940.5	1876.7	1806.6	1725.8	1634.6	1543.5
37.5°	2277.3	2228.8	2177.6	2128.8	2076.7	2015.7	1947.6	1875.6	1797.7	1709.7	1620.1
35°	2349.2	2308.2	2254.9	2197.3	2138.9	2083.4	2016.5	1942.0	1861.7	1776.6	1681.9
32.5°	2417.3	2371.0	2321.7	2266.6	2205.6	2141.4	2079.2	2004.7	1924.0	1833.5	1739.2
30°	2481.5	2436.1	2381.2	2325.5	2265.5	2201.8	2131.8	2063.3	1979.7	1889.3	1788.7
27.5°	2536.3	2491.8	2442.2	2378.0	2316.5	2253.1	2186.4	2110.7	2032.2	1936.5	1833.3
25°	2585.0	2540.2	2487.4	2428.2	2361.5	2296.2	2232.2	2158.6	2073.0	1978.5	1879.8
22.5°	2630.3	2579.6	2525.4	2468.2	2404.4	2336.1	2264.8	2194.3	2108.0	2019.6	1916.3
20°	2663.7	2615.7	2558.8	2499.7	2435.7	2369.4	2298.8	2224.8	2142.2	2049.7	1947.3
17.5°	2692.6	2643.9	2589.3	2526.6	2466.7	2398.5	2327.2	2249.7	2170.3	2076.9	1975.8
15°	2714.6	2667.4	2614.8	2556.1	2490.7	2424.1	2350.9	2274.5	2192.1	2099.8	2001.6
12.5°	2738.5	2689.0	2635.7	2575.5	2511.8	2445.1	2371.8	2293.9	2209.9	2119.0	2020.8
10°	2757.6	2707.7	2652.7	2594.7	2528.6	2458.5	2386.0	2309.9	2226.7	2136.6	2037.5
7.5°	2771.7	2721.6	2666.4	2606.7	2540.4	2471.3	2399.6	2322.1	2239.7	2149.3	2049.7
5°	2781.5	2729.7	2676.1	2615.7	2548.7	2478.8	2408.0	2330.4	2248.0	2157.1	2057.1
2.5°	2785.6	2733.6	2678.7	2620.1	2553.2	2481.7	2410.6	2334.4	2251.7	2160.7	2059.9
0°	2782.6	2731.8	2675.4	2619.6	2552.9	2479.7	2408.2	2333.6	2250.7	2159.7	2058.1
-2.5°	2781.1	2729.6	2672.6	2616.9	2550.8	2477.9	2407.4	2332.1	2248.7	2158.9	2058.5
-5°	2772.8	2721.4	2663.5	2611.2	2543.3	2470.8	2402.0	2325.9	2242.5	2153.8	2054.3
-7.5°	2757.8	2706.0	2647.3	2599.4	2531.0	2460.0	2391.8	2315.2	2232.3	2144.9	2045.2
-10°	2736.4	2687.1	2632.5	2579.6	2513.2	2445.8	2376.7	2300.5	2218.5	2130.0	2031.2
-12.5°	2711.0	2662.5	2614.1	2553.4	2488.5	2423.3	2354.2	2279.0	2199.2	2109.6	2012.8
-15°	2678.5	2634.9	2583.4	2525.0	2460.5	2393.6	2324.0	2248.2	2172.3	2087.2	1992.0
-17.5°	2639.1	2596.9	2543.5	2487.2	2426.8	2358.6	2289.1	2217.2	2141.8	2054.3	1954.6
-20°	2597.3	2548.4	2499.1	2446.1	2382.8	2318.1	2249.8	2176.5	2100.0	2014.9	1916.1

Classified

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

Scaled Data Report



REPORT NUMBER: P622922 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: LSF65-XX-PC-45W-7040

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	2542.0	2498.1	2448.7	2395.9	2334.9	2271.3	2208.2	2136.4	2058.1	1970.1	1878.3
-25°	2486.6	2440.2	2396.5	2339.6	2282.8	2222.9	2152.6	2087.0	2010.6	1918.9	1831.0
-27.5°	2424.9	2383.7	2332.0	2281.5	2226.5	2160.9	2097.9	2031.1	1951.5	1871.1	1769.0
-30°	2350.7	2308.8	2265.5	2218.2	2155.8	2093.4	2032.8	1966.2	1893.3	1810.2	1708.1
-32.5°	2270.4	2233.4	2193.1	2136.5	2076.2	2022.4	1963.2	1896.0	1828.1	1736.1	1645.4
-35°	2189.8	2153.6	2105.4	2052.7	1998.5	1945.8	1887.0	1825.6	1747.7	1664.8	1578.6
-37.5°	2101.7	2064.2	2019.5	1970.4	1920.7	1864.2	1809.5	1742.8	1670.7	1593.3	1515.7
-40°	2009.5	1971.6	1931.7	1888.6	1835.1	1781.2	1724.1	1662.6	1593.9	1521.0	1441.0
-42.5°	1918.1	1881.6	1840.2	1796.0	1748.5	1696.4	1641.4	1581.1	1514.0	1443.0	1348.0
-45°	1819.0	1781.8	1745.6	1703.6	1659.9	1609.8	1556.0	1492.5	1428.3	1346.9	1268.0
-47.5°	1719.4	1684.5	1649.7	1610.1	1566.9	1517.5	1458.7	1400.8	1330.6	1261.1	1181.1
-50°	1616.0	1584.0	1549.9	1511.1	1462.8	1411.6	1359.8	1303.2	1240.3	1169.1	1087.0
-52.5°	1505.8	1474.0	1433.9	1391.5	1350.1	1303.5	1255.6	1201.0	1140.2	1063.3	993.7
-55°	1370.5	1338.2	1308.9	1274.3	1228.9	1170.0	1119.2	1072.0	1022.7	958.4	864.4
-57.5°	1195.3	1178.8	1141.4	1088.4	1046.1	1014.0	984.1	948.2	874.4	797.7	742.3
-60°	1010.0	984.0	953.2	929.2	911.8	888.1	837.4	780.3	727.1	688.1	644.8
-62.5°	877.3	856.3	829.1	804.1	777.3	739.5	691.5	654.8	624.1	591.3	543.7
-65°	712.1	704.2	679.7	642.6	613.3	587.6	568.8	545.3	510.9	442.7	401.4
-67.5°	558.5	542.8	525.3	505.6	492.9	474.1	438.2	399.4	367.5	345.6	315.4
-70°	417.5	410.7	400.2	381.0	354.6	335.2	321.5	302.7	277.2	252.4	227.4
-72.5°	294.9	283.8	275.5	266.1	253.5	239.5	224.3	207.2	188.2	167.3	145.3
-75°	190.4	185.1	178.4	170.0	159.7	147.5	133.7	120.4	110.2	100.3	89.7
-77.5°	96.3	93.0	88.5	82.8	78.3	74.3	69.2	64.2	60.0	54.3	48.6
-80°	49.8	48.3	46.5	44.8	43.1	41.3	38.9	36.1	33.7	31.1	28.4
-82.5°	30.1	29.3	28.5	27.6	26.6	25.3	23.9	22.5	21.1	19.6	18.1
-85°	15.9	15.4	14.8	14.2	13.5	12.6	11.8	10.9	10.2	9.5	8.8
-87.5°	5.4	5.2	5.1	4.9	4.7	4.5	4.2	4.0	3.8	3.5	3.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622922 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF65-XX-PC-45W-7040

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	1.6	1.6	1.5	1.2	0.7	0.6	0.6	0.6	0.6	0.6	0.5
80°	7.5	6.6	5.7	4.9	4.2	3.5	2.6	1.6	1.0	0.9	0.7
77.5°	15.4	13.1	11.5	9.6	8.1	7.0	5.9	4.7	3.4	2.0	1.2
75°	32.2	27.9	21.6	17.9	14.6	11.8	9.3	7.8	6.3	4.6	2.8
72.5°	65.6	57.2	48.0	38.2	27.8	19.7	15.3	11.8	9.2	7.2	5.2
70°	111.9	96.6	79.4	67.5	55.1	40.6	24.7	18.2	13.4	9.9	7.5
67.5°	194.5	160.9	134.1	109.4	83.4	66.6	48.7	30.2	19.4	13.8	9.9
65°	295.7	252.9	210.9	168.4	136.2	99.9	74.1	52.1	30.8	19.0	13.0
62.5°	415.6	355.5	300.5	249.4	198.5	152.7	109.9	76.2	50.5	26.5	16.9
60°	540.5	485.3	406.0	335.1	273.1	212.9	159.0	109.8	70.5	43.8	22.2
57.5°	670.6	594.5	532.4	440.7	351.7	280.0	214.0	153.6	100.7	61.0	32.0
55°	808.9	715.1	633.2	557.1	445.1	351.0	273.4	202.2	137.6	83.0	46.9
52.5°	932.9	842.3	738.5	645.8	547.0	429.5	334.7	254.1	179.2	111.7	61.7
50°	1079.6	953.7	854.4	733.8	625.8	516.6	400.5	305.2	223.2	144.5	78.5
47.5°	1195.7	1084.9	950.0	829.8	704.7	590.1	467.3	360.5	266.8	180.1	102.4
45°	1283.7	1191.5	1057.6	911.9	784.2	659.2	540.7	414.7	309.3	216.3	126.8
42.5°	1357.4	1270.8	1154.6	1001.7	861.7	726.4	598.2	466.6	354.5	250.2	151.7
40°	1432.0	1334.7	1228.2	1097.5	931.9	793.8	656.4	525.9	400.4	282.7	178.2
37.5°	1519.1	1392.4	1291.0	1165.7	1012.4	854.0	712.2	574.0	435.6	313.9	204.5
35°	1582.3	1461.4	1340.7	1228.2	1084.6	909.2	765.3	619.4	474.2	346.2	229.5
32.5°	1636.4	1522.6	1391.6	1279.2	1139.5	978.3	815.1	663.7	516.0	379.0	253.2
30°	1688.7	1568.9	1446.1	1319.6	1192.1	1033.9	854.9	705.3	551.4	406.9	275.4
27.5°	1734.3	1619.2	1490.7	1360.3	1236.1	1079.6	897.0	744.0	582.8	430.3	296.4
25°	1771.8	1665.8	1526.7	1399.5	1272.3	1120.6	946.1	779.7	613.5	452.6	315.8
22.5°	1803.6	1702.1	1562.1	1432.9	1301.4	1159.9	986.7	812.3	642.4	478.0	334.5
20°	1836.1	1728.7	1605.4	1461.5	1329.7	1194.4	1022.3	837.0	668.4	500.4	352.6
17.5°	1869.3	1754.0	1638.4	1486.8	1355.4	1219.9	1053.2	858.5	691.4	519.5	368.5
15°	1892.6	1775.2	1666.4	1508.7	1376.4	1242.1	1076.2	878.5	711.4	535.1	382.1
12.5°	1912.8	1791.8	1683.7	1527.8	1393.4	1258.1	1095.5	897.7	728.3	548.2	392.8
10°	1928.0	1808.6	1699.3	1545.5	1406.6	1269.7	1111.0	911.7	741.9	558.7	400.4
7.5°	1938.9	1821.3	1711.3	1556.9	1415.7	1278.1	1122.1	921.1	752.3	566.5	406.2
5°	1945.7	1828.3	1718.4	1562.5	1421.0	1283.1	1129.0	926.1	759.4	571.6	410.1
2.5°	1947.8	1830.1	1721.6	1562.9	1422.6	1284.9	1132.0	927.1	763.1	574.1	412.1
0°	1945.4	1827.2	1721.0	1558.5	1420.4	1283.4	1131.0	924.5	763.5	573.8	412.3
-2.5°	1945.8	1828.8	1719.5	1559.4	1421.0	1283.2	1131.4	927.2	763.9	574.5	413.1
-5°	1941.7	1825.8	1714.2	1555.9	1417.7	1279.7	1128.1	926.3	761.2	572.4	412.0
-7.5°	1932.3	1817.7	1705.3	1548.1	1410.6	1272.9	1121.2	921.5	755.2	567.7	408.9
-10°	1919.9	1804.1	1690.1	1535.8	1399.4	1262.7	1110.9	912.3	746.3	560.4	403.8
-12.5°	1904.3	1785.5	1668.0	1518.9	1383.7	1249.1	1096.3	898.5	734.2	550.6	396.5
-15°	1883.9	1763.5	1641.6	1499.2	1363.8	1231.4	1078.2	879.7	718.0	538.4	386.7
-17.5°	1858.1	1737.2	1610.7	1476.4	1340.4	1208.6	1056.9	860.4	698.5	523.7	374.9
-20°	1814.9	1707.0	1577.0	1448.6	1314.3	1183.0	1026.0	840.0	675.7	507.0	361.2



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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°	1767.9	1662.1	1536.3	1416.0	1285.0	1153.7	988.8	816.7	649.0	488.1	345.9
-25°	1720.5	1612.1	1495.6	1371.5	1252.7	1121.4	947.5	788.3	618.9	467.0	329.2
-27.5°	1670.6	1560.4	1449.7	1325.2	1210.4	1084.5	899.2	757.9	587.6	443.9	310.9
-30°	1611.2	1509.4	1393.3	1277.8	1163.9	1033.9	859.0	718.5	558.2	418.0	290.9
-32.5°	1551.6	1453.8	1332.2	1225.8	1113.7	974.8	821.9	675.3	526.7	391.0	269.6
-35°	1493.7	1381.2	1275.3	1169.6	1060.5	907.9	778.3	627.3	493.3	364.2	246.7
-37.5°	1419.1	1309.1	1210.7	1109.7	995.7	856.0	725.2	582.8	456.0	335.8	224.7
-40°	1331.8	1239.6	1144.1	1049.3	924.6	800.4	667.7	539.6	414.2	305.6	205.0
-42.5°	1259.6	1163.7	1076.0	978.9	861.2	736.0	609.8	492.4	377.1	273.7	184.4
-45°	1178.9	1088.9	1006.9	905.1	788.0	670.6	556.5	438.6	338.1	240.3	163.1
-47.5°	1095.6	1017.0	933.8	829.5	712.1	606.6	496.4	387.2	297.3	214.6	141.2
-50°	1012.9	931.4	850.8	736.3	642.7	540.4	430.1	339.8	256.0	186.7	118.5
-52.5°	909.8	830.2	739.1	661.6	570.1	464.8	370.5	292.4	219.8	157.4	98.7
-55°	792.0	720.2	656.5	583.3	483.7	389.8	316.0	245.6	184.9	128.3	79.5
-57.5°	687.8	634.2	568.2	482.6	396.1	326.9	263.9	204.4	149.4	101.8	62.1
-60°	596.8	531.1	453.2	386.0	325.5	269.9	214.8	162.0	116.8	77.9	46.7
-62.5°	467.1	410.8	360.4	310.7	264.9	214.9	165.8	125.0	88.1	57.1	33.7
-65°	364.9	325.5	283.1	245.6	203.9	159.0	124.5	91.8	63.8	41.2	28.2
-67.5°	278.5	247.2	213.7	177.9	143.0	116.7	88.2	64.5	44.4	30.7	22.7
-70°	200.6	172.1	142.0	122.5	101.3	78.6	59.7	43.3	31.3	23.8	17.2
-72.5°	126.9	112.3	95.8	78.4	65.2	51.8	38.2	29.5	23.2	17.8	11.9
-75°	77.1	67.1	57.0	48.5	39.5	32.1	25.4	21.3	16.8	11.8	8.4
-77.5°	43.4	37.5	33.5	28.4	24.7	21.7	18.3	14.5	10.9	8.1	5.9
-80°	26.2	24.0	21.7	19.4	16.9	14.4	11.5	8.9	6.9	5.4	4.0
-82.5°	16.4	14.7	12.9	11.0	9.1	7.8	6.6	5.4	4.3	3.4	2.6
-85°	7.9	7.1	6.2	5.5	4.9	4.2	3.6	2.9	2.4	2.0	1.6
-87.5°	3.1	2.8	2.5	2.2	2.0	1.7	1.5	1.3	1.1	0.9	0.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.2	0.2	0.1	0.1	0.0	0.0
85°	0.4	0.4	0.3	0.3	0.2	0.1	0.0
82.5°	0.5	0.5	0.5	0.4	0.3	0.1	0.0
80°	0.7	0.6	0.5	0.5	0.3	0.2	0.0
77.5°	0.9	0.8	0.7	0.6	0.4	0.2	0.0
75°	1.3	1.1	0.8	0.6	0.5	0.3	0.0
72.5°	3.0	1.5	1.0	0.8	0.6	0.3	0.0
70°	5.0	2.5	1.4	0.9	0.6	0.3	0.0
67.5°	7.0	4.2	1.7	1.1	0.7	0.4	0.0
65°	9.1	5.8	2.6	1.3	0.8	0.4	0.0
62.5°	11.2	7.4	3.9	1.6	0.9	0.5	0.0
60°	14.2	9.1	5.1	1.8	1.0	0.5	0.0
57.5°	17.4	10.9	6.4	2.2	1.1	0.5	0.0
55°	23.0	12.9	7.6	3.1	1.2	0.6	0.0
52.5°	29.7	15.4	8.8	4.0	1.3	0.6	0.0
50°	41.6	17.8	10.2	4.8	1.5	0.6	0.0
47.5°	53.2	23.3	11.5	5.6	1.6	0.7	0.0
45°	64.5	28.8	12.9	6.4	1.8	0.7	0.0
42.5°	75.3	35.9	14.6	7.2	2.0	0.7	0.0
40°	93.0	44.3	16.3	7.9	2.2	0.7	0.0
37.5°	109.7	52.4	17.9	8.6	2.3	0.8	0.0
35°	126.9	60.1	21.3	9.4	2.7	0.8	0.0
32.5°	143.9	67.3	25.4	10.2	3.1	0.8	0.0
30°	159.8	74.1	29.5	10.9	3.5	0.9	0.0
27.5°	176.3	81.5	33.4	11.6	3.8	0.9	0.0
25°	191.5	91.3	37.4	12.3	4.2	0.9	0.0
22.5°	205.1	100.1	41.7	12.9	4.5	1.0	0.0
20°	217.5	108.0	45.6	13.6	4.8	1.0	0.0
17.5°	229.0	115.0	49.1	14.2	5.0	1.0	0.0
15°	239.0	121.6	52.2	14.7	5.2	1.0	0.0
12.5°	247.4	127.8	54.8	15.2	5.4	1.0	0.0
10°	254.3	132.8	57.1	15.6	5.6	1.1	0.0
7.5°	259.6	136.8	59.0	15.9	5.7	1.1	0.0
5°	263.2	139.7	60.4	16.2	5.8	1.1	0.0
2.5°	265.3	141.6	61.5	16.4	5.9	1.1	0.0
0°	265.8	142.3	62.1	16.4	5.9	1.1	0.0
-2.5°	266.5	143.1	62.5	16.7	5.9	1.1	0.0
-5°	265.6	142.9	62.4	16.9	6.0	1.1	0.0
-7.5°	263.0	141.6	61.9	17.0	5.9	1.1	0.0
-10°	258.9	139.2	61.0	16.9	5.9	1.1	0.0
-12.5°	253.1	135.8	59.6	16.9	5.8	1.1	0.0
-15°	245.7	131.3	57.8	16.7	5.7	1.1	0.0
-17.5°	236.7	126.4	55.4	16.4	5.5	1.1	0.0
-20°	226.2	120.9	52.6	16.0	5.3	1.1	0.0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	215.7	114.4	49.4	15.6	5.1	1.1	0.0
-25°	205.0	107.1	45.6	15.2	4.9	1.1	0.0
-27.5°	193.1	98.7	41.7	14.6	4.6	1.0	0.0
-30°	180.3	91.9	37.6	13.9	4.3	1.0	0.0
-32.5°	166.7	85.1	33.2	13.2	4.0	1.0	0.0
-35°	152.2	77.6	28.5	12.3	3.6	0.9	0.0
-37.5°	137.2	69.5	24.6	11.5	3.3	0.9	0.0
-40°	121.9	61.4	23.1	10.6	3.1	0.9	0.0
-42.5°	105.5	52.7	21.5	9.7	3.0	0.9	0.0
-45°	92.8	44.3	19.7	8.7	2.8	0.8	0.0
-47.5°	79.1	36.5	18.0	7.7	2.5	0.8	0.0
-50°	66.2	28.4	16.1	6.8	2.3	0.8	0.0
-52.5°	52.8	25.7	14.1	6.0	2.1	0.7	0.0
-55°	42.0	22.9	12.2	5.1	1.9	0.7	0.0
-57.5°	31.4	19.9	10.2	4.2	1.8	0.7	0.0
-60°	27.5	16.8	8.1	3.7	1.6	0.6	0.0
-62.5°	23.4	13.7	6.9	3.3	1.4	0.6	0.0
-65°	19.1	10.6	5.6	2.7	1.3	0.5	0.0
-67.5°	14.7	8.1	4.5	2.3	1.1	0.5	0.0
-70°	10.3	6.4	3.7	2.0	1.0	0.4	0.0
-72.5°	7.8	4.9	2.9	1.7	0.9	0.4	0.0
-75°	5.8	3.7	2.3	1.3	0.8	0.3	0.0
-77.5°	4.2	2.8	1.8	1.1	0.6	0.3	0.0
-80°	3.0	2.0	1.4	0.9	0.5	0.2	0.0
-82.5°	1.9	1.5	1.0	0.7	0.4	0.2	0.0
-85°	1.3	1.0	0.7	0.5	0.3	0.1	0.0
-87.5°	0.6	0.5	0.3	0.2	0.1	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)