

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: HALO

Report Number: P670557 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL80DBZ-80W-3500K

Issue Date: 3/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P670557 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (2022-08-03)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ARFL80DBZ-80W-3500K
Description: SLIM WALL OR FLOODLIGHT
Light Source:
Ballast/Driver: -

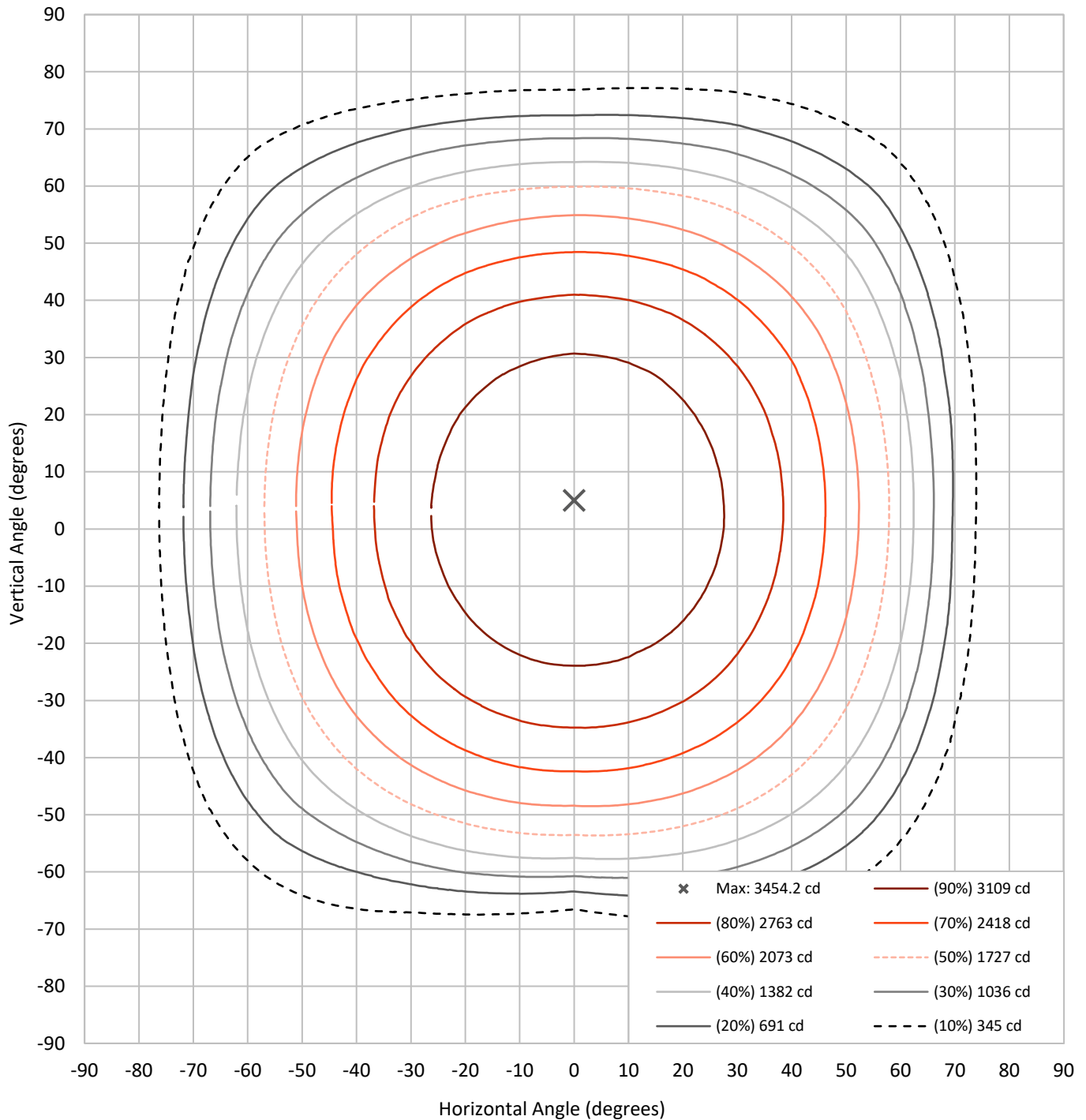
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9589.6 lumens	Max Intensity:	3454.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	121.7 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 0.4' x L: 0.72' x H: 0.18')		
Beam Angle (50%):	114.9°H x 113.4°V	Field Angle (10%):	150.2°H x 143.3°V
Beam Lumens:	7682.7 lumens	Field Lumens:	9446.2 lumens
Beam Efficiency:	80.1%	Field Efficiency:	98.5%
Input Watts (W):	78.8		
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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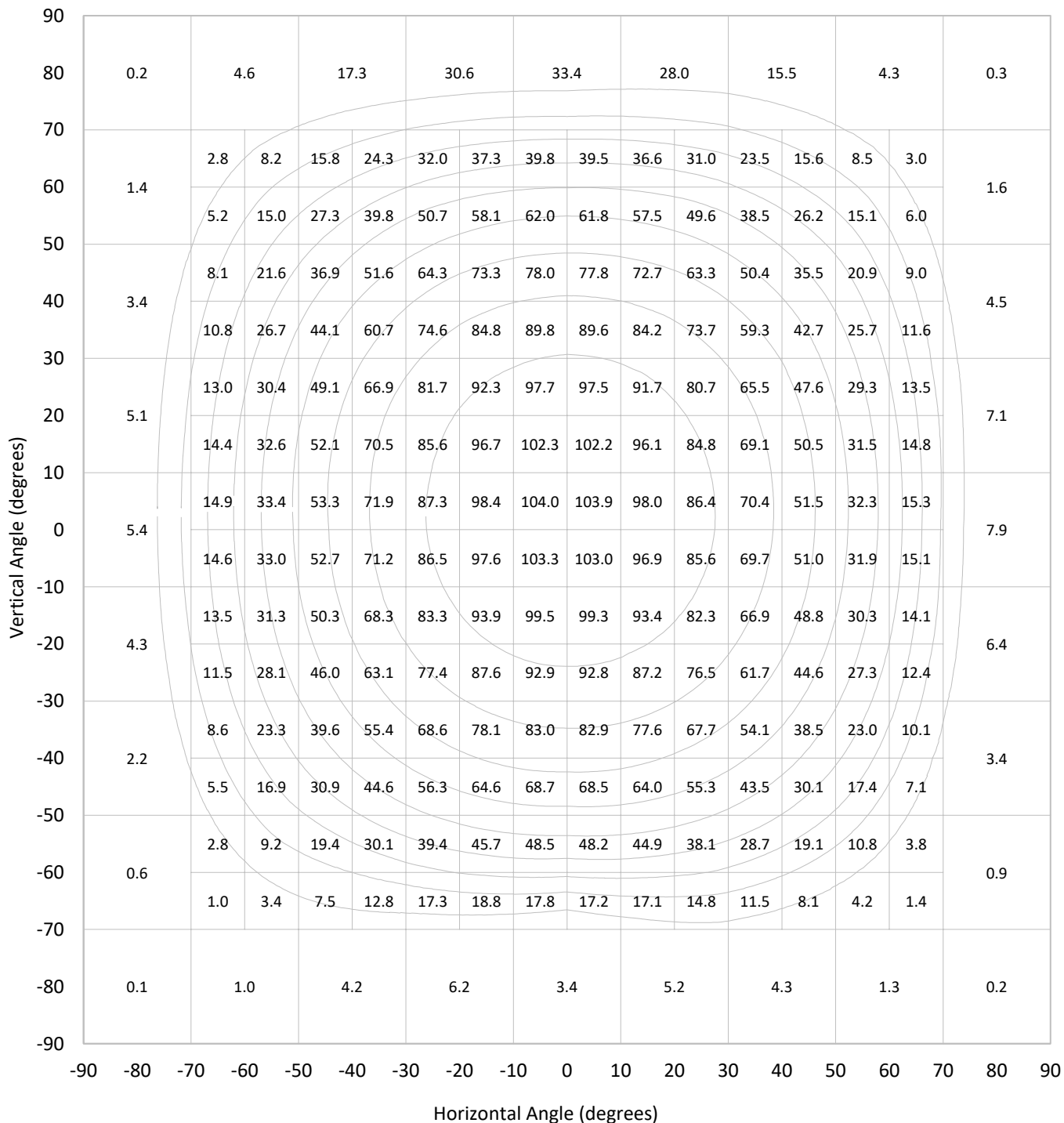
Iso-Candela Plot





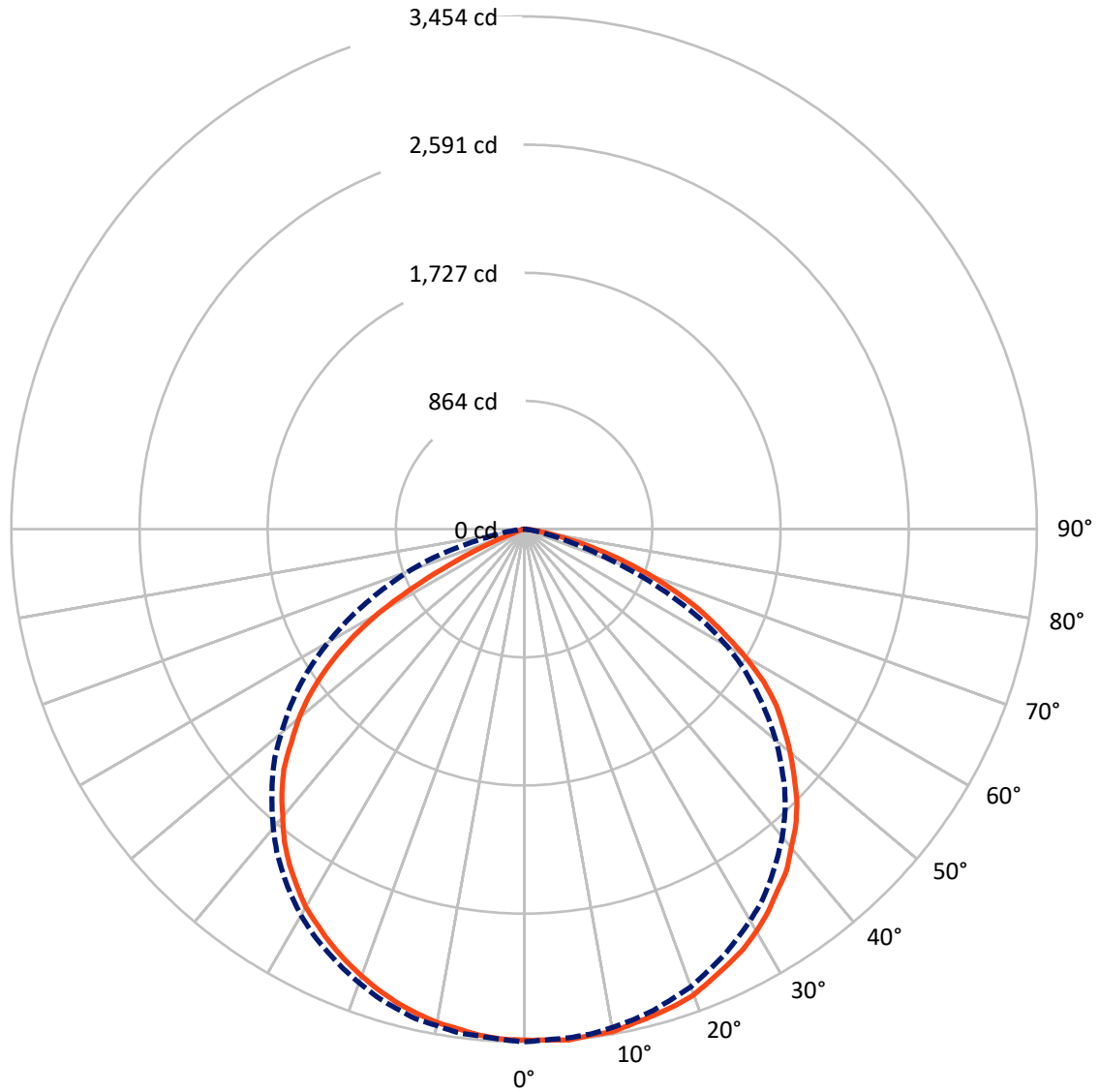
REPORT NUMBER: P670557 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table



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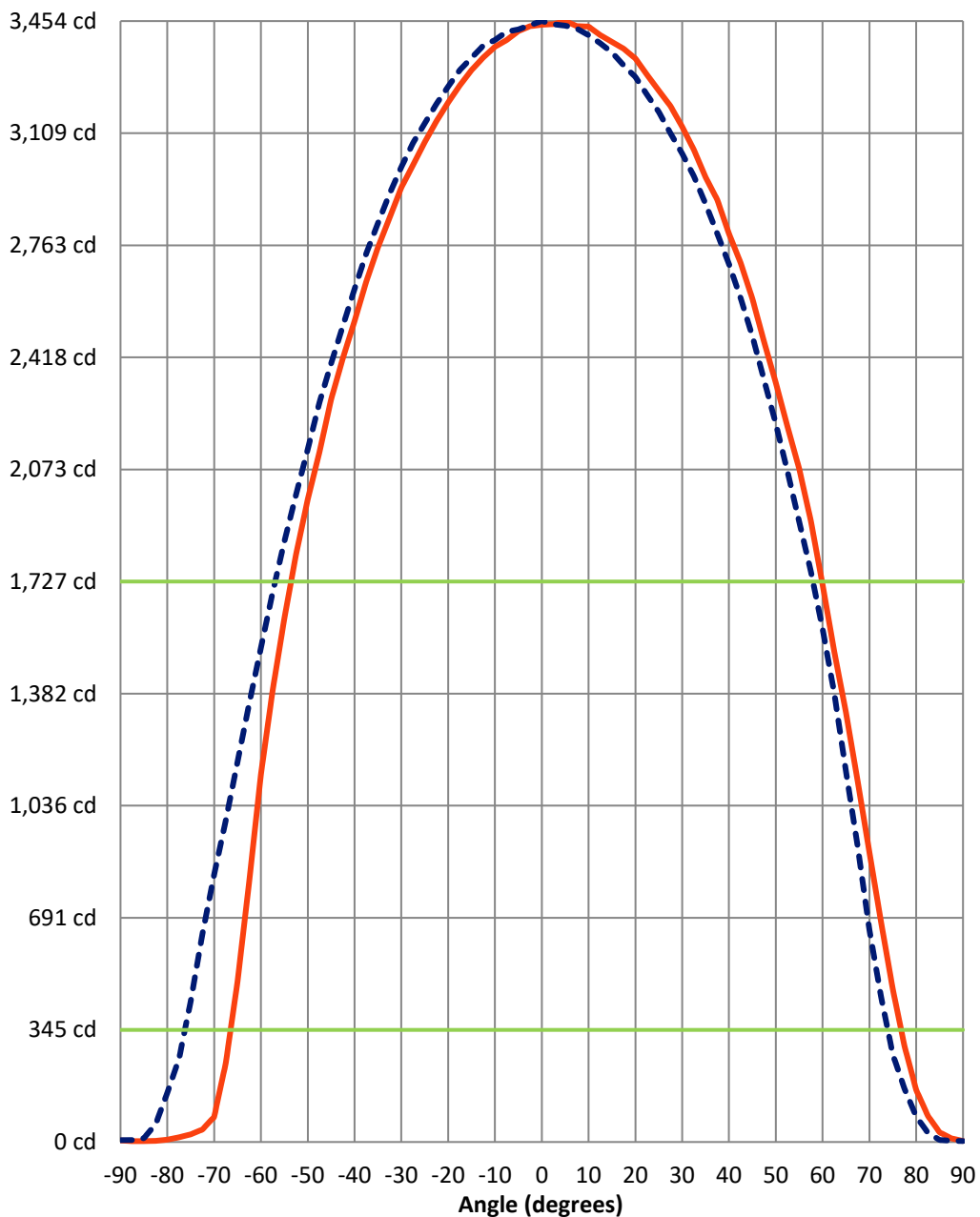
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 5-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 114.9°
 V Angle: 113.4°
 Lumens: 7682.7
 Efficiency: 80.1%

Field:
 H Angle: 150.2°
 V Angle: 143.3°
 Lumens: 9446.2
 Efficiency: 98.5%

Spill:
 Lumens: 143.5
 Efficiency: 1.5%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 5-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°	5.7	5.6	5.5	5.5	5.4	5.3	5.2	5.1	5.0	5.0	4.9
87.5°	5.7	5.8	5.9	6.1	6.3	6.6	6.9	7.2	7.6	8.0	8.4
85°	5.7	5.8	6.0	6.3	6.7	7.1	7.7	8.4	9.2	10.0	11.2
82.5°	5.7	5.9	6.1	6.5	7.1	7.8	8.7	10.0	11.6	13.4	16.0
80°	5.7	5.9	6.2	6.8	7.5	8.6	10.2	12.1	15.7	19.8	26.4
77.5°	5.7	5.9	6.3	7.0	8.1	9.7	12.4	16.5	23.2	33.1	44.0
75°	5.7	5.9	6.4	7.3	8.8	11.3	15.7	24.1	35.2	47.3	64.2
72.5°	5.7	6.0	6.6	7.6	9.5	13.7	21.9	33.5	46.7	69.0	96.4
70°	5.7	6.0	6.7	8.0	11.0	17.4	29.0	42.7	67.1	99.1	132.7
67.5°	5.7	6.0	6.7	8.4	12.5	22.5	36.1	59.3	93.6	130.3	168.4
65°	5.7	6.0	6.9	9.1	15.0	27.6	46.5	80.0	120.7	162.1	212.8
62.5°	5.7	6.1	7.1	9.9	18.4	32.8	60.3	104.5	145.9	201.1	265.6
60°	5.7	6.1	7.2	10.8	21.5	40.3	79.0	124.6	179.5	244.8	323.4
57.5°	5.7	6.1	7.4	11.6	25.1	50.6	98.9	148.5	215.4	292.0	386.4
55°	5.7	6.1	7.5	13.6	28.4	62.2	114.5	177.4	252.3	342.9	454.9
52.5°	5.7	6.1	7.7	15.3	32.4	77.6	130.6	206.3	289.7	398.2	515.4
50°	5.7	6.2	8.0	17.0	39.3	92.5	154.4	234.6	330.6	454.2	576.9
47.5°	5.7	6.2	8.4	18.6	45.9	103.7	177.3	263.4	374.5	506.2	638.5
45°	5.7	6.2	8.7	20.5	52.9	114.3	198.5	292.5	420.4	557.0	697.4
42.5°	5.7	6.2	8.9	22.2	63.2	128.1	218.4	321.8	463.7	608.2	750.9
40°	5.7	6.2	9.2	23.8	73.0	145.2	238.5	354.5	504.7	659.5	797.4
37.5°	5.7	6.2	9.4	25.2	82.3	161.5	257.0	388.2	542.7	704.4	846.4
35°	5.7	6.2	9.9	28.1	89.4	175.7	275.8	420.4	581.6	744.6	891.8
32.5°	5.7	6.2	10.4	31.3	95.4	188.2	293.9	451.1	621.3	779.3	931.8
30°	5.7	6.2	10.9	34.2	100.8	199.6	310.2	479.3	656.5	814.6	967.0
27.5°	5.7	6.2	11.3	36.7	105.7	210.1	330.3	503.5	687.2	848.4	998.8
25°	5.7	6.2	11.7	39.0	111.4	219.7	349.3	525.4	714.7	877.3	1033.2
22.5°	5.7	6.2	12.0	41.0	119.6	228.0	366.1	547.3	736.2	902.4	1064.4
20°	5.7	6.2	12.2	43.4	127.0	235.2	381.4	569.8	755.3	924.2	1090.8
17.5°	5.7	6.2	12.3	46.6	133.5	241.2	395.8	589.8	772.2	941.5	1113.7
15°	5.7	6.2	12.4	49.3	139.0	246.4	407.9	607.1	788.4	956.0	1132.6
12.5°	5.7	6.2	12.4	51.4	143.7	250.9	417.9	620.5	801.6	967.6	1147.5
10°	5.7	6.2	12.4	53.0	147.3	254.1	425.6	629.9	811.9	978.4	1159.0
7.5°	5.7	6.1	12.3	54.2	150.0	256.1	431.0	636.7	819.3	986.7	1167.0
5°	5.7	6.1	12.1	54.8	151.7	256.7	434.1	640.7	823.7	991.6	1171.5
2.5°	5.7	6.1	11.9	54.9	152.4	256.2	434.8	642.1	825.1	993.1	1172.5
0°	5.7	6.1	11.7	54.5	152.0	254.5	433.1	640.7	823.5	991.1	1169.9
-2.5°	5.7	6.1	11.7	53.9	150.3	252.2	429.0	635.5	817.7	985.3	1163.9
-5°	5.7	6.1	11.6	52.8	147.6	248.8	422.4	627.5	808.9	975.9	1154.3
-7.5°	5.7	6.1	11.5	51.2	144.0	244.2	413.5	616.8	797.1	963.2	1141.2
-10°	5.7	6.1	11.4	49.2	139.3	238.6	402.2	603.3	782.4	947.0	1124.6
-12.5°	5.7	6.0	11.2	46.7	133.8	232.0	388.6	587.2	764.7	928.4	1104.4
-15°	5.7	6.0	11.0	43.8	127.4	224.3	372.8	566.9	744.2	908.9	1080.9
-17.5°	5.7	6.0	10.8	40.4	120.1	216.3	354.8	542.8	720.7	886.5	1053.5
-20°	5.7	6.0	10.5	36.7	112.0	207.9	334.7	515.9	696.9	861.2	1022.6

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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°	5.7	6.0	10.2	33.7	103.2	198.7	314.8	486.3	671.1	831.1	988.2
-25°	5.7	6.0	9.9	31.4	93.5	188.8	294.4	458.1	643.0	797.6	948.7
-27.5°	5.7	6.0	9.5	28.9	86.7	178.1	272.6	430.5	607.8	760.2	906.0
-30°	5.7	6.0	9.1	26.2	80.9	166.6	250.5	400.8	569.0	718.6	865.5
-32.5°	5.7	6.0	8.6	23.3	74.8	154.2	233.3	366.4	525.5	676.0	821.3
-35°	5.7	5.9	8.2	20.3	68.3	141.1	215.1	329.2	477.6	634.8	771.3
-37.5°	5.7	5.9	7.8	17.7	61.0	126.4	197.2	293.3	432.0	586.7	716.8
-40°	5.7	5.9	7.6	16.4	52.3	109.4	180.6	260.3	389.3	531.9	659.9
-42.5°	5.7	5.9	7.4	15.0	43.3	91.9	163.3	229.8	341.8	471.0	607.5
-45°	5.7	5.9	7.1	13.6	34.1	78.3	144.5	204.7	291.4	412.4	543.6
-47.5°	5.7	5.9	6.9	12.1	28.5	68.4	125.1	181.1	250.3	357.8	473.3
-50°	5.7	5.9	6.7	11.1	23.6	58.3	103.1	159.2	213.6	297.5	402.7
-52.5°	5.7	5.9	6.4	10.1	18.6	46.3	80.4	135.6	182.4	245.6	337.6
-55°	5.7	5.8	6.3	9.1	16.0	34.3	66.5	110.9	156.4	202.5	267.9
-57.5°	5.7	5.8	6.3	8.1	13.8	26.3	53.8	84.5	128.9	167.4	214.3
-60°	5.7	5.8	6.2	7.6	11.7	20.1	39.8	64.3	99.9	138.0	171.8
-62.5°	5.7	5.8	6.1	7.2	10.3	15.8	27.4	49.3	70.7	105.2	137.6
-65°	5.7	5.8	6.0	6.8	9.0	13.2	20.3	34.1	52.5	73.6	102.0
-67.5°	5.7	5.8	5.9	6.5	7.9	11.0	15.3	23.2	36.2	50.6	68.1
-70°	5.7	5.8	5.9	6.3	7.3	9.2	12.2	16.1	23.2	33.4	44.2
-72.5°	5.7	5.7	5.9	6.1	6.6	8.0	10.1	12.7	15.8	21.1	27.4
-75°	5.7	5.7	5.8	6.0	6.4	7.1	8.3	10.2	12.2	14.6	17.6
-77.5°	5.7	5.7	5.8	5.9	6.1	6.5	7.2	8.3	9.6	11.2	12.8
-80°	5.7	5.7	5.7	5.8	5.9	6.2	6.6	7.0	7.8	8.7	9.8
-82.5°	5.7	5.7	5.7	5.7	5.8	5.9	6.1	6.4	6.7	7.1	7.7
-85°	5.7	5.7	5.6	5.6	5.7	5.7	5.8	5.9	6.0	6.1	6.4
-87.5°	5.7	5.6	5.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.6
-90°	5.7	5.8	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.2	6.3



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 CATALOG NUMBER: ARFL80DBZ-80W-3500K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	4.8	4.7	5.0	5.3	5.6	5.8	6.1	6.4	6.7	7.0	7.3
87.5°	9.0	9.5	9.7	9.9	10.0	10.2	10.3	10.4	10.5	10.6	10.7
85°	12.6	14.1	14.8	15.5	16.3	17.6	18.9	20.0	21.0	22.0	22.8
82.5°	19.6	23.4	26.1	31.1	35.8	40.0	44.0	48.0	52.0	55.8	59.5
80°	35.5	45.5	52.3	58.5	65.6	75.7	85.3	94.5	104.5	113.8	122.3
77.5°	55.5	70.6	86.2	100.8	116.3	131.0	144.4	157.2	169.7	181.7	192.7
75°	86.3	112.1	134.5	152.9	170.7	189.0	207.4	230.7	252.0	273.7	292.8
72.5°	127.2	156.2	182.7	206.1	237.7	269.4	301.8	333.3	363.4	393.8	423.5
70°	165.6	202.0	244.8	286.8	329.3	374.0	417.5	460.3	500.6	540.8	579.9
67.5°	212.6	266.7	328.0	384.5	440.5	493.2	541.5	593.0	644.0	695.7	743.0
65°	273.5	344.6	426.1	493.0	547.9	609.3	669.1	727.9	784.6	839.5	896.0
62.5°	342.0	430.8	519.6	588.7	658.1	724.3	789.6	853.1	920.6	981.5	1039.4
60°	417.3	513.6	605.2	687.3	760.4	831.5	907.0	978.5	1046.5	1114.6	1181.8
57.5°	492.3	592.0	690.1	779.1	856.7	940.9	1018.5	1095.5	1173.8	1249.6	1324.5
55°	561.7	670.2	771.2	865.1	956.3	1041.5	1127.8	1215.5	1298.9	1385.9	1472.0
52.5°	632.6	744.5	846.1	952.4	1047.8	1142.3	1238.3	1331.4	1426.5	1524.8	1612.7
50°	701.0	812.2	925.9	1032.3	1139.2	1243.1	1344.6	1446.7	1552.7	1645.1	1730.3
47.5°	764.3	882.4	997.4	1112.0	1230.0	1339.2	1448.5	1560.0	1660.9	1752.0	1837.1
45°	821.1	947.6	1066.8	1193.2	1312.6	1430.6	1550.0	1659.7	1757.9	1850.5	1944.4
42.5°	882.0	1007.1	1137.6	1264.8	1393.3	1523.1	1640.7	1747.4	1848.8	1950.2	2042.0
40°	935.6	1066.7	1204.5	1339.8	1474.9	1601.7	1719.3	1831.7	1941.1	2041.8	2136.5
37.5°	984.3	1126.0	1265.9	1405.4	1544.7	1673.6	1798.0	1916.2	2024.8	2128.6	2221.0
35°	1031.0	1181.1	1328.1	1475.2	1612.5	1743.4	1868.9	1990.9	2104.6	2204.9	2296.3
32.5°	1079.2	1229.7	1380.5	1530.8	1670.0	1804.5	1935.0	2059.7	2174.9	2270.7	2366.2
30°	1123.4	1280.1	1436.0	1585.0	1727.9	1863.6	1995.3	2121.3	2229.5	2335.4	2432.7
27.5°	1163.2	1324.0	1482.8	1632.3	1777.0	1916.2	2049.1	2171.7	2286.1	2391.3	2493.7
25°	1197.8	1360.9	1523.4	1676.2	1822.0	1963.4	2096.9	2214.3	2331.3	2442.6	2540.9
22.5°	1231.1	1398.9	1560.4	1716.8	1862.5	2004.2	2135.9	2260.4	2376.8	2486.0	2586.2
20°	1262.7	1432.7	1592.6	1749.3	1898.4	2038.7	2168.5	2296.0	2414.6	2519.9	2622.1
17.5°	1288.9	1458.2	1620.7	1777.5	1928.2	2068.7	2197.7	2327.7	2444.7	2553.5	2658.7
15°	1308.1	1479.7	1644.7	1800.9	1952.6	2091.8	2227.3	2356.1	2468.4	2574.7	2684.9
12.5°	1323.5	1497.1	1664.1	1819.4	1970.3	2109.4	2248.8	2376.0	2487.7	2596.4	2705.5
10°	1335.7	1510.1	1678.8	1834.4	1983.0	2122.4	2262.9	2389.9	2503.5	2617.8	2721.5
7.5°	1345.6	1518.8	1688.2	1844.7	1991.1	2130.8	2272.7	2397.1	2513.8	2626.2	2732.2
5°	1351.2	1523.2	1693.0	1850.1	1994.8	2134.6	2278.6	2399.2	2514.5	2628.4	2737.7
2.5°	1352.6	1523.4	1693.4	1850.6	1993.5	2133.5	2278.9	2396.4	2510.2	2625.3	2737.7
0°	1349.7	1519.4	1689.5	1846.1	1987.4	2127.4	2273.7	2389.0	2501.8	2617.1	2731.4
-2.5°	1343.0	1513.3	1682.5	1839.5	1981.1	2121.1	2265.9	2382.8	2496.7	2610.8	2723.6
-5°	1332.0	1502.9	1671.0	1827.8	1969.9	2109.6	2252.3	2371.9	2487.5	2599.6	2709.8
-7.5°	1316.9	1488.3	1655.0	1811.0	1953.9	2093.1	2233.1	2355.9	2473.3	2583.5	2690.0
-10°	1297.6	1469.4	1634.3	1789.0	1933.4	2071.6	2209.7	2334.5	2447.9	2562.0	2663.1
-12.5°	1276.0	1446.1	1609.2	1762.0	1908.2	2045.1	2181.7	2307.2	2416.0	2526.3	2630.2
-15°	1251.2	1418.4	1579.8	1732.2	1877.9	2013.7	2147.2	2275.0	2382.8	2490.3	2593.8
-17.5°	1222.7	1386.2	1545.8	1698.1	1843.8	1977.0	2106.5	2231.9	2344.6	2454.5	2556.1
-20°	1187.7	1349.9	1506.9	1657.4	1804.6	1934.7	2062.6	2184.7	2299.2	2400.3	2505.0



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1147.8	1306.8	1463.7	1611.0	1754.4	1886.9	2013.9	2134.5	2249.9	2352.6	2454.2
-25°	1105.8	1259.8	1415.4	1561.8	1701.9	1835.7	1959.8	2078.1	2186.9	2291.6	2384.8
-27.5°	1061.7	1213.2	1362.9	1508.0	1644.3	1780.2	1899.4	2016.7	2125.2	2229.0	2325.4
-30°	1013.5	1160.6	1305.1	1448.9	1580.5	1711.5	1833.0	1949.3	2057.7	2155.1	2253.8
-32.5°	961.4	1102.5	1241.2	1382.2	1515.4	1640.7	1766.4	1874.4	1982.6	2081.8	2172.9
-35°	904.4	1043.5	1178.7	1312.8	1445.5	1563.1	1683.6	1798.0	1900.1	1998.5	2090.5
-37.5°	848.3	980.1	1109.3	1235.2	1364.0	1486.1	1596.8	1709.9	1809.7	1906.5	1997.9
-40°	789.3	912.3	1037.8	1159.4	1280.2	1400.5	1508.2	1613.5	1718.0	1807.0	1896.0
-42.5°	724.3	842.9	962.2	1078.3	1190.6	1305.8	1415.6	1511.1	1611.7	1707.1	1789.2
-45°	654.5	771.9	882.4	994.6	1101.6	1203.1	1306.0	1407.8	1496.8	1590.5	1677.5
-47.5°	592.1	694.3	801.9	905.9	1009.0	1098.5	1189.9	1286.7	1379.7	1463.0	1549.3
-50°	516.8	615.7	716.2	814.9	907.9	988.4	1069.9	1156.3	1247.8	1330.8	1408.8
-52.5°	435.2	540.3	625.2	720.2	800.7	871.4	945.6	1021.1	1100.6	1185.8	1261.2
-55°	358.5	450.4	544.9	619.7	690.5	754.5	816.0	882.1	949.3	1020.2	1094.3
-57.5°	282.0	362.6	445.9	527.4	577.5	635.7	689.9	742.0	795.4	854.2	913.5
-60°	217.0	278.5	350.0	418.2	478.8	521.0	564.4	607.7	649.6	690.3	733.7
-62.5°	167.7	206.9	258.2	316.7	368.0	415.4	454.2	479.0	511.0	540.9	570.4
-65°	129.6	154.2	185.5	220.9	267.8	306.9	342.1	372.3	394.9	407.0	424.2
-67.5°	90.5	114.7	133.3	156.7	182.0	209.9	240.8	264.7	284.6	300.4	311.5
-70°	56.1	72.4	91.7	109.3	123.0	139.8	156.2	171.3	190.1	203.1	210.3
-72.5°	34.0	42.4	52.9	64.6	79.1	91.1	99.9	108.8	116.9	124.5	130.3
-75°	20.6	24.5	28.2	35.5	41.7	49.0	54.7	62.4	67.9	71.8	74.5
-77.5°	14.3	16.0	17.7	19.7	22.5	24.6	28.2	30.7	32.7	34.1	33.9
-80°	10.9	12.0	12.8	13.5	14.2	15.2	15.9	16.6	17.6	18.1	18.2
-82.5°	8.4	9.1	9.6	10.1	10.6	10.9	11.2	11.5	11.7	11.9	12.0
-85°	6.6	6.9	7.3	7.7	8.0	8.3	8.6	8.8	9.0	9.1	9.1
-87.5°	5.6	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.7	8.0	8.2
-90°	6.3	6.4	6.3	6.3	6.2	6.1	6.1	6.0	5.9	5.9	5.8



REPORT NUMBER: P670557 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-3500K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	7.5	7.8	8.1	7.7	7.3	6.9	6.4	6.0	5.6	5.2	4.8
87.5°	10.8	10.9	11.0	11.1	11.3	11.3	11.4	11.5	11.5	11.5	11.5
85°	24.3	25.9	27.3	28.5	29.4	30.2	30.8	31.3	31.5	31.6	31.6
82.5°	64.2	69.0	73.3	76.4	78.9	80.8	82.4	83.9	84.9	85.3	85.3
80°	130.1	137.4	144.1	149.0	153.1	156.8	159.8	162.2	164.0	165.2	165.6
77.5°	205.5	218.0	229.1	239.0	248.7	257.7	265.9	273.1	279.8	285.7	290.5
75°	311.0	327.5	341.2	360.4	380.0	397.5	413.9	430.0	443.5	454.3	462.6
72.5°	452.8	482.6	511.0	537.2	562.1	586.2	609.7	629.6	646.1	658.9	668.4
70°	619.6	661.0	699.0	732.2	762.2	789.6	814.2	835.8	853.9	868.7	880.3
67.5°	788.8	833.1	876.7	917.6	950.5	979.8	1006.5	1030.0	1050.8	1068.7	1084.3
65°	949.2	997.3	1042.6	1085.1	1124.9	1162.1	1193.7	1222.1	1247.7	1270.6	1289.4
62.5°	1096.1	1153.0	1205.0	1254.7	1301.5	1344.1	1381.7	1414.7	1443.8	1467.7	1486.3
60°	1246.0	1309.6	1373.1	1435.4	1491.2	1538.5	1579.4	1612.5	1641.4	1664.6	1683.6
57.5°	1400.5	1476.0	1551.1	1618.0	1672.8	1712.0	1750.3	1786.1	1816.1	1842.0	1865.0
55°	1560.1	1635.2	1700.7	1762.8	1817.3	1857.6	1896.7	1934.6	1971.1	2002.0	2024.2
52.5°	1691.3	1764.7	1828.6	1885.9	1944.7	1995.6	2034.1	2073.2	2107.3	2134.9	2158.1
50°	1808.5	1877.9	1951.5	2010.4	2069.6	2122.0	2165.3	2203.4	2238.3	2268.8	2292.8
47.5°	1919.7	1993.9	2066.1	2131.6	2189.9	2245.0	2291.0	2330.2	2364.8	2394.7	2420.0
45°	2025.1	2105.3	2176.8	2244.4	2304.2	2361.7	2410.7	2451.1	2484.7	2515.0	2541.2
42.5°	2128.8	2207.6	2279.1	2348.5	2414.0	2469.7	2517.5	2558.6	2596.1	2628.6	2655.6
40°	2222.2	2299.4	2376.7	2445.7	2508.4	2565.0	2617.7	2664.4	2700.8	2730.6	2753.7
37.5°	2305.8	2388.2	2463.8	2533.4	2596.9	2660.3	2712.4	2754.0	2786.4	2821.2	2848.6
35°	2384.5	2468.0	2544.6	2616.2	2682.3	2740.4	2790.9	2837.3	2873.8	2906.5	2932.1
32.5°	2457.8	2541.2	2620.1	2691.2	2755.1	2814.6	2866.1	2913.5	2950.9	2980.3	3005.8
30°	2524.6	2608.6	2686.8	2758.5	2822.9	2882.1	2934.2	2979.1	3016.7	3042.6	3070.2
27.5°	2582.3	2668.4	2748.5	2819.1	2884.0	2940.7	2989.8	3031.6	3075.8	3106.8	3131.5
25°	2636.0	2724.9	2802.2	2873.4	2933.7	2989.7	3040.4	3088.0	3125.0	3166.2	3190.9
22.5°	2683.8	2771.6	2849.7	2915.7	2977.6	3037.0	3088.0	3136.5	3175.1	3217.4	3238.0
20°	2723.3	2811.6	2888.3	2953.2	3021.1	3077.5	3131.2	3174.8	3216.7	3255.2	3276.6
17.5°	2755.2	2843.8	2916.0	2993.0	3056.5	3111.6	3159.7	3207.6	3254.2	3283.6	3316.8
15°	2783.2	2867.4	2943.6	3019.7	3080.1	3134.7	3188.0	3238.9	3278.5	3313.7	3342.4
12.5°	2805.7	2886.3	2971.1	3043.2	3104.4	3156.0	3211.8	3260.3	3304.1	3339.6	3368.0
10°	2817.0	2900.7	2988.2	3057.7	3115.4	3178.7	3231.7	3281.3	3321.9	3357.9	3385.9
7.5°	2825.4	2914.4	2998.5	3071.4	3127.6	3193.2	3244.3	3296.4	3340.0	3366.0	3396.3
5°	2831.4	2922.6	3004.5	3078.6	3138.9	3198.9	3252.4	3303.3	3341.2	3378.3	3395.9
2.5°	2832.3	2924.1	3004.9	3075.4	3144.7	3199.2	3253.9	3304.3	3342.0	3375.0	3403.1
0°	2826.9	2919.0	2999.4	3069.0	3143.2	3194.0	3248.8	3297.8	3339.8	3371.2	3404.1
-2.5°	2817.9	2909.0	2988.0	3061.7	3132.3	3185.5	3237.1	3286.0	3325.2	3356.8	3385.4
-5°	2801.9	2892.9	2972.4	3049.8	3113.9	3172.5	3222.1	3268.2	3302.6	3340.9	3362.8
-7.5°	2779.5	2871.4	2954.3	3028.2	3088.9	3151.5	3201.6	3247.2	3278.6	3313.5	3345.3
-10°	2754.9	2846.9	2927.4	2999.3	3063.8	3124.6	3171.9	3209.7	3249.2	3282.6	3317.8
-12.5°	2731.4	2815.4	2891.4	2953.9	3030.8	3090.0	3140.3	3187.5	3223.0	3252.9	3279.3
-15°	2695.7	2774.0	2853.7	2929.7	2991.5	3054.0	3105.4	3152.2	3190.7	3219.4	3239.8
-17.5°	2648.7	2732.3	2815.8	2876.4	2936.4	3006.2	3060.8	3105.9	3148.9	3180.9	3206.7
-20°	2597.2	2689.9	2758.6	2835.7	2898.1	2950.5	3008.2	3056.2	3094.4	3129.3	3161.1



REPORT NUMBER: P670557 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	2546.4	2629.1	2709.7	2777.4	2844.0	2903.7	2950.1	2999.2	3037.4	3069.5	3097.1
-25°	2485.3	2569.1	2652.0	2717.5	2780.7	2842.2	2892.6	2934.3	2983.5	3005.2	3033.5
-27.5°	2416.0	2505.0	2579.6	2656.1	2713.4	2767.4	2823.6	2868.5	2909.0	2939.2	2973.0
-30°	2343.2	2429.6	2509.5	2575.8	2643.2	2694.2	2743.5	2784.9	2833.1	2864.0	2891.1
-32.5°	2264.5	2344.7	2424.4	2497.4	2557.6	2615.5	2663.1	2704.5	2741.5	2772.4	2800.9
-35°	2176.1	2260.2	2332.3	2401.0	2468.0	2528.6	2572.5	2617.7	2653.0	2681.7	2709.4
-37.5°	2083.4	2162.2	2238.8	2305.0	2360.8	2422.1	2475.2	2521.5	2550.9	2583.5	2609.3
-40°	1980.0	2058.6	2132.5	2199.2	2264.9	2311.2	2356.9	2404.4	2443.3	2475.6	2500.9
-42.5°	1868.1	1943.9	2015.1	2084.8	2143.8	2196.8	2250.2	2287.2	2321.1	2351.0	2376.9
-45°	1755.3	1822.6	1889.4	1953.5	2011.6	2070.2	2117.1	2156.2	2190.1	2221.9	2246.6
-47.5°	1629.3	1702.0	1762.0	1817.5	1871.3	1923.2	1971.6	2013.9	2050.3	2078.0	2099.5
-50°	1486.6	1561.2	1626.5	1684.6	1733.0	1777.0	1819.2	1859.8	1895.0	1924.3	1947.1
-52.5°	1333.2	1398.5	1467.6	1529.3	1582.3	1627.6	1667.7	1702.4	1733.6	1758.7	1779.5
-55°	1171.1	1232.1	1290.4	1344.2	1397.9	1450.8	1490.9	1525.6	1553.6	1576.9	1594.8
-57.5°	976.0	1040.1	1104.6	1157.8	1201.2	1241.3	1279.4	1313.7	1343.9	1368.3	1386.5
-60°	782.0	829.4	879.3	929.3	975.8	1016.5	1051.9	1076.3	1098.0	1116.7	1131.5
-62.5°	599.2	625.7	659.9	693.7	726.4	756.6	783.7	806.0	823.7	835.7	841.9
-65°	440.0	454.2	469.8	484.1	501.4	515.3	532.3	544.0	551.1	554.7	553.4
-67.5°	315.7	314.5	315.7	317.7	324.8	329.3	331.1	332.4	329.6	322.7	314.0
-70°	214.5	215.7	212.7	209.8	209.3	206.0	199.7	191.0	182.7	171.0	156.6
-72.5°	135.0	137.0	134.8	132.6	131.5	129.4	126.1	120.5	112.6	103.3	92.6
-75°	76.5	77.1	75.9	76.8	77.7	77.0	75.1	72.1	67.8	62.3	55.8
-77.5°	34.5	34.7	33.5	34.4	36.3	37.1	37.1	36.2	34.6	32.4	29.6
-80°	18.3	17.8	16.7	16.1	15.6	15.1	14.5	13.9	13.1	12.3	11.4
-82.5°	12.1	12.1	12.0	11.5	11.0	10.4	9.8	9.1	8.4	7.7	6.9
-85°	9.2	9.3	9.3	8.8	8.3	7.8	7.3	6.7	6.2	5.6	5.0
-87.5°	8.5	8.7	8.9	8.4	7.9	7.3	6.8	6.3	5.8	5.3	4.7
-90°	5.7	5.7	5.6	5.5	5.5	5.4	5.3	5.3	5.2	5.1	5.1



REPORT NUMBER: P670557 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-3500K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	4.4	3.9	3.5	3.1	3.4	3.7	4.0	4.3	4.6	5.0	5.3
87.5°	11.5	11.5	11.4	11.4	11.6	11.9	12.2	12.4	12.6	12.8	13.0
85°	31.3	31.0	30.5	29.9	31.3	32.5	33.6	34.5	35.3	35.9	36.2
82.5°	84.8	83.9	82.5	80.7	83.8	86.6	88.9	90.7	92.0	92.8	93.1
80°	165.4	164.5	163.0	160.7	166.4	171.3	175.5	178.8	181.3	182.9	183.6
77.5°	293.9	295.9	296.6	295.8	303.4	309.6	314.2	317.4	319.0	319.2	317.8
75°	468.4	471.7	472.6	471.2	478.4	483.4	486.1	486.6	484.8	480.8	474.5
72.5°	674.9	678.6	679.4	677.1	682.4	684.8	684.3	681.1	675.3	667.0	656.2
70°	888.5	893.3	894.9	893.1	897.5	898.6	896.4	890.8	882.0	869.8	854.4
67.5°	1096.8	1105.6	1110.6	1111.5	1114.2	1113.0	1108.1	1099.7	1088.1	1072.9	1054.0
65°	1304.0	1314.6	1320.9	1323.0	1325.0	1322.8	1316.4	1305.8	1291.2	1272.5	1249.8
62.5°	1499.6	1508.0	1511.7	1511.0	1515.8	1516.3	1512.4	1504.0	1490.3	1471.5	1447.7
60°	1698.7	1709.7	1716.1	1717.6	1720.4	1718.2	1711.1	1699.3	1683.2	1662.8	1637.8
57.5°	1883.6	1898.0	1908.0	1913.4	1912.4	1906.6	1896.4	1881.6	1861.2	1837.0	1810.1
55°	2042.7	2057.4	2068.1	2074.6	2072.2	2065.5	2054.5	2039.3	2019.9	1994.7	1965.7
52.5°	2176.6	2190.4	2199.7	2204.5	2203.1	2196.9	2185.9	2170.5	2151.5	2128.7	2100.4
50°	2311.6	2325.8	2335.2	2339.8	2339.6	2334.3	2323.6	2307.1	2285.3	2259.8	2229.1
47.5°	2439.7	2453.2	2461.9	2465.9	2465.2	2459.5	2448.9	2433.1	2412.9	2389.1	2361.6
45°	2563.0	2580.2	2592.2	2598.6	2594.8	2585.7	2571.8	2553.8	2531.7	2505.7	2473.9
42.5°	2676.7	2692.4	2703.2	2708.7	2705.4	2696.7	2683.0	2665.7	2643.9	2613.2	2578.8
40°	2771.7	2785.3	2794.4	2799.0	2797.7	2791.7	2781.1	2765.7	2743.9	2714.8	2679.4
37.5°	2870.1	2886.4	2897.4	2903.4	2901.7	2896.1	2885.2	2864.1	2836.6	2806.5	2775.8
35°	2951.1	2963.3	2970.3	2973.2	2974.0	2971.0	2963.3	2947.9	2922.4	2902.3	2865.0
32.5°	3025.6	3040.4	3051.1	3057.5	3054.5	3046.7	3035.1	3020.0	2998.9	2974.9	2939.7
30°	3093.5	3109.9	3121.7	3128.5	3124.7	3116.5	3104.9	3086.4	3061.6	3036.0	3005.2
27.5°	3156.1	3173.5	3185.3	3192.3	3188.1	3178.7	3165.9	3147.6	3121.7	3100.4	3056.4
25°	3215.6	3227.8	3235.8	3240.0	3238.5	3232.2	3220.3	3202.8	3180.2	3148.7	3108.9
22.5°	3259.4	3277.4	3283.8	3288.5	3286.9	3281.2	3269.0	3251.5	3228.1	3193.3	3155.6
20°	3299.0	3318.1	3331.1	3339.0	3334.5	3321.6	3304.7	3294.4	3270.2	3236.0	3197.0
17.5°	3331.4	3351.1	3362.9	3368.9	3364.4	3356.3	3346.8	3332.1	3299.2	3274.0	3231.3
15°	3366.8	3380.7	3387.1	3390.0	3390.0	3384.9	3368.5	3350.4	3329.5	3300.8	3265.9
12.5°	3390.4	3404.8	3411.3	3411.0	3410.7	3404.5	3398.1	3376.6	3347.5	3317.5	3292.3
10°	3408.1	3425.6	3435.2	3437.1	3438.4	3429.5	3409.5	3392.1	3370.0	3334.3	3302.7
7.5°	3415.9	3434.5	3436.8	3438.8	3439.5	3439.3	3427.7	3397.7	3375.7	3351.0	3307.7
5°	3421.3	3428.5	3441.8	3454.2	3444.3	3440.0	3430.9	3410.7	3385.8	3357.6	3317.7
2.5°	3421.9	3434.6	3444.1	3444.8	3440.8	3438.7	3428.6	3413.6	3388.1	3359.1	3320.5
0°	3419.7	3425.6	3431.4	3442.9	3441.6	3436.7	3426.0	3404.2	3387.9	3358.6	3317.4
-2.5°	3410.4	3424.7	3433.3	3438.4	3437.4	3438.7	3425.3	3400.9	3379.5	3345.1	3306.3
-5°	3394.6	3406.7	3414.6	3423.2	3424.4	3424.6	3405.7	3389.2	3363.2	3323.6	3290.5
-7.5°	3370.4	3388.2	3394.3	3395.8	3402.5	3398.5	3387.3	3371.2	3336.2	3301.0	3266.3
-10°	3345.4	3367.9	3374.2	3374.9	3377.2	3372.7	3360.3	3334.5	3303.3	3276.4	3240.6
-12.5°	3307.5	3326.9	3339.5	3342.0	3343.8	3335.0	3317.1	3298.6	3270.9	3240.6	3202.7
-15°	3267.1	3283.1	3297.7	3303.1	3301.3	3293.4	3277.9	3250.4	3230.8	3199.1	3170.2
-17.5°	3221.6	3237.1	3250.3	3256.1	3252.5	3241.2	3228.4	3207.9	3185.0	3159.8	3125.7
-20°	3177.7	3191.8	3201.1	3203.3	3201.3	3192.8	3178.5	3158.9	3140.4	3109.6	3074.8

Classified

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

Scaled Data Report



REPORT NUMBER: P670557 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL80DBZ-80W-3500K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	3121.3	3137.4	3144.8	3145.6	3144.8	3138.6	3129.4	3108.9	3076.4	3051.8	3017.5
-25°	3056.3	3070.3	3078.6	3081.1	3080.5	3073.2	3058.9	3042.0	3016.0	2991.4	2960.1
-27.5°	2988.3	2999.6	3008.2	3010.8	3010.4	3003.7	2993.0	2977.9	2954.4	2925.0	2887.7
-30°	2913.5	2928.2	2937.6	2941.2	2940.6	2933.8	2921.5	2901.7	2876.5	2847.2	2810.3
-32.5°	2825.6	2840.3	2847.2	2848.5	2849.4	2844.4	2832.6	2813.8	2791.3	2761.4	2724.8
-35°	2729.0	2743.6	2753.2	2756.7	2757.0	2750.5	2737.7	2719.9	2697.9	2671.3	2636.9
-37.5°	2629.4	2642.5	2649.6	2651.1	2652.6	2648.4	2637.9	2620.1	2597.5	2571.4	2529.2
-40°	2515.5	2525.2	2530.1	2529.6	2533.3	2530.6	2520.8	2503.5	2483.2	2456.6	2422.1
-42.5°	2396.3	2408.6	2414.7	2415.0	2417.0	2413.3	2403.6	2388.3	2367.9	2339.1	2305.0
-45°	2264.8	2278.5	2286.8	2288.4	2289.4	2283.6	2272.0	2255.5	2235.3	2211.2	2181.6
-47.5°	2115.4	2124.6	2128.1	2126.0	2131.7	2131.7	2126.1	2113.7	2095.6	2072.3	2042.3
-50°	1964.1	1975.3	1980.6	1979.9	1984.7	1983.3	1975.8	1962.1	1942.6	1918.1	1888.1
-52.5°	1795.6	1806.3	1811.3	1810.4	1815.4	1814.5	1808.0	1796.0	1779.2	1758.1	1729.5
-55°	1607.8	1615.5	1617.3	1612.8	1620.9	1622.8	1618.9	1609.7	1595.8	1576.3	1552.2
-57.5°	1396.8	1401.0	1399.2	1391.2	1403.1	1408.8	1408.6	1402.6	1389.9	1371.9	1348.4
-60°	1141.4	1145.5	1142.8	1132.5	1148.0	1155.9	1157.2	1152.7	1143.6	1130.8	1115.2
-62.5°	842.0	835.8	822.9	803.0	829.5	849.3	863.1	871.4	874.7	873.4	868.1
-65°	546.8	534.9	517.5	494.6	527.2	554.4	576.2	593.0	604.8	612.0	617.5
-67.5°	302.3	286.8	267.4	244.0	278.5	309.0	335.4	357.8	377.1	395.1	409.2
-70°	139.6	120.5	99.7	77.6	109.5	140.0	168.5	194.4	217.2	236.3	251.1
-72.5°	80.6	67.4	53.3	38.6	58.5	77.7	95.7	112.1	126.4	138.9	149.1
-75°	48.6	40.6	32.3	23.6	34.3	44.6	54.3	63.1	70.8	77.2	82.0
-77.5°	26.3	22.6	18.7	14.5	19.2	23.6	27.7	31.3	34.3	36.6	38.5
-80°	10.4	9.4	8.3	7.2	8.8	10.3	11.8	13.1	14.3	15.3	16.2
-82.5°	6.1	5.3	4.4	3.6	4.5	5.5	6.4	7.3	8.1	9.0	9.7
-85°	4.5	3.9	3.3	2.7	3.3	3.9	4.5	5.1	5.7	6.2	6.7
-87.5°	4.2	3.7	3.2	2.7	3.1	3.5	3.9	4.3	4.7	5.1	5.5
-90°	5.0	4.9	4.9	4.8	4.9	5.0	5.2	5.3	5.4	5.5	5.6



REPORT NUMBER: P670557 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-3500K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	5.6	5.9	6.2	6.5	6.8	6.4	6.1	5.7	5.4	5.0	4.7
87.5°	13.1	13.2	13.2	13.3	13.3	12.7	12.2	11.6	11.2	10.7	10.3
85°	36.4	36.4	36.1	35.5	34.7	32.6	30.3	28.0	26.3	24.5	22.5
82.5°	92.7	92.1	91.1	89.3	86.7	81.2	75.4	69.7	65.0	60.0	54.8
80°	183.3	182.0	179.7	176.0	170.1	159.5	148.2	137.3	127.6	117.1	105.9
77.5°	314.7	309.8	303.1	294.6	282.9	263.9	244.5	226.5	211.3	195.6	178.8
75°	466.1	457.6	448.6	437.9	421.6	396.3	370.1	342.9	315.2	287.5	261.0
72.5°	643.1	627.7	612.0	596.1	572.9	538.8	502.2	465.8	429.3	392.4	358.0
70°	835.8	814.4	790.5	765.2	732.8	693.6	650.1	606.4	563.8	517.5	469.1
67.5°	1031.6	1006.4	978.3	946.8	904.2	857.4	810.5	761.8	710.4	651.0	592.2
65°	1223.0	1192.3	1161.3	1128.6	1080.9	1028.3	972.8	913.6	852.6	795.0	733.2
62.5°	1418.3	1382.6	1342.9	1300.1	1248.7	1194.3	1140.4	1076.3	1005.7	932.5	858.8
60°	1608.7	1575.2	1536.4	1486.0	1424.5	1359.1	1296.6	1229.7	1161.0	1085.0	998.7
57.5°	1782.2	1749.6	1709.8	1657.6	1596.3	1529.8	1457.3	1379.7	1304.1	1225.5	1143.5
55°	1932.4	1895.8	1853.1	1803.6	1748.3	1680.6	1608.8	1530.3	1446.5	1357.6	1272.3
52.5°	2066.9	2029.1	1985.9	1933.9	1875.7	1810.7	1745.0	1664.3	1580.9	1489.9	1394.1
50°	2190.6	2152.3	2107.4	2053.3	1995.8	1932.4	1861.8	1785.3	1702.2	1610.7	1513.2
47.5°	2321.3	2276.5	2226.3	2166.1	2108.3	2042.4	1972.7	1896.1	1811.2	1722.5	1621.3
45°	2437.7	2398.2	2347.4	2282.3	2220.4	2147.0	2075.1	1997.8	1914.2	1821.8	1724.6
42.5°	2544.1	2502.4	2448.3	2392.3	2327.5	2255.2	2173.9	2092.9	2007.5	1916.5	1815.6
40°	2642.5	2591.6	2542.6	2489.2	2422.6	2353.8	2272.3	2188.0	2095.2	2002.0	1902.4
37.5°	2733.4	2683.7	2629.8	2571.3	2511.3	2439.5	2363.1	2275.1	2184.1	2082.0	1981.1
35°	2817.2	2768.7	2711.9	2652.6	2588.0	2518.2	2443.0	2358.0	2264.1	2161.2	2053.1
32.5°	2899.4	2845.2	2788.3	2725.9	2663.2	2590.0	2513.3	2430.5	2337.7	2240.0	2118.1
30°	2965.1	2913.0	2859.9	2795.4	2725.8	2658.9	2580.5	2498.2	2404.1	2298.2	2187.2
27.5°	3018.5	2975.2	2919.5	2857.2	2789.2	2712.8	2637.8	2555.9	2466.5	2354.4	2238.3
25°	3065.9	3024.6	2971.8	2912.6	2841.3	2769.3	2688.5	2597.5	2504.8	2402.5	2286.4
22.5°	3111.5	3063.8	3018.8	2959.1	2894.7	2816.4	2731.5	2651.2	2555.1	2450.9	2330.2
20°	3150.1	3103.2	3047.1	2996.9	2932.5	2855.4	2775.0	2683.3	2583.0	2482.1	2366.4
17.5°	3188.7	3134.6	3084.0	3022.1	2961.3	2892.0	2805.8	2715.7	2624.4	2517.3	2399.2
15°	3215.9	3163.4	3111.7	3053.0	2995.4	2917.8	2832.5	2746.0	2649.0	2542.0	2427.9
12.5°	3243.5	3193.8	3129.8	3075.6	3006.8	2937.9	2859.6	2768.1	2670.1	2559.3	2448.1
10°	3262.3	3207.9	3150.7	3089.4	3022.8	2954.1	2873.9	2783.0	2687.5	2579.9	2465.2
7.5°	3278.4	3221.5	3169.6	3100.1	3037.7	2970.2	2884.7	2792.6	2699.2	2594.2	2477.0
5°	3282.1	3227.0	3174.3	3108.4	3045.8	2976.0	2890.7	2799.3	2705.3	2600.1	2483.0
2.5°	3280.1	3226.7	3175.2	3111.4	3048.9	2974.1	2891.4	2800.7	2705.8	2601.1	2483.5
0°	3275.8	3221.0	3171.8	3109.0	3046.3	2969.2	2886.6	2796.2	2701.3	2596.9	2478.5
-2.5°	3264.9	3211.5	3161.6	3099.3	3036.2	2959.6	2876.4	2786.4	2692.0	2587.5	2469.5
-5°	3246.8	3196.8	3146.9	3084.2	3020.0	2946.6	2861.0	2771.2	2677.8	2572.7	2455.3
-7.5°	3222.5	3176.8	3128.4	3060.4	2997.9	2926.6	2840.5	2750.8	2658.8	2552.5	2436.1
-10°	3198.6	3149.9	3098.8	3031.2	2967.0	2898.8	2814.5	2725.0	2634.7	2526.2	2412.0
-12.5°	3165.4	3122.2	3066.5	3009.7	2932.6	2864.1	2782.0	2693.8	2602.6	2495.1	2379.4
-15°	3127.3	3082.1	3020.9	2968.9	2904.2	2825.2	2744.2	2659.0	2565.4	2458.4	2339.9
-17.5°	3086.4	3037.1	2987.9	2914.2	2857.3	2782.0	2699.9	2618.6	2523.1	2416.6	2297.5
-20°	3034.5	2990.2	2929.8	2877.0	2805.1	2731.5	2653.1	2569.9	2475.9	2370.2	2251.5



REPORT NUMBER: P670557 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-3500K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	2981.4	2931.8	2882.5	2816.7	2750.1	2674.3	2601.5	2515.8	2418.1	2312.2	2200.3
-25°	2916.0	2873.3	2816.1	2755.9	2689.2	2619.4	2540.8	2458.0	2361.0	2252.6	2140.3
-27.5°	2848.9	2800.5	2746.9	2688.7	2624.3	2551.9	2475.4	2385.9	2290.4	2188.8	2079.6
-30°	2770.3	2723.4	2672.9	2615.7	2548.1	2478.4	2398.1	2313.4	2218.5	2116.3	2001.9
-32.5°	2687.7	2641.9	2591.9	2529.8	2467.0	2395.4	2319.4	2232.2	2137.7	2038.1	1924.4
-35°	2598.6	2546.1	2497.2	2440.9	2375.4	2308.6	2230.2	2144.7	2054.5	1945.7	1841.9
-37.5°	2490.9	2446.9	2400.0	2340.7	2281.8	2211.9	2134.0	2051.2	1952.5	1859.3	1756.8
-40°	2384.4	2337.5	2293.6	2239.7	2177.1	2105.3	2029.0	1940.8	1857.0	1760.9	1662.5
-42.5°	2269.5	2229.8	2180.6	2124.8	2058.8	1988.5	1911.0	1835.6	1749.1	1659.1	1558.9
-45°	2145.9	2103.3	2050.8	1993.1	1931.0	1865.9	1795.7	1720.6	1636.6	1544.4	1443.4
-47.5°	2002.4	1957.4	1910.3	1858.4	1804.1	1739.5	1672.2	1594.6	1510.6	1417.8	1320.9
-50°	1852.6	1814.4	1771.5	1721.3	1666.8	1603.4	1532.2	1455.1	1371.7	1285.0	1196.0
-52.5°	1697.2	1661.6	1620.2	1569.3	1511.4	1447.4	1378.6	1305.3	1228.6	1146.7	1055.6
-55°	1522.1	1487.0	1444.5	1395.0	1340.9	1281.8	1218.9	1150.1	1075.3	990.9	898.2
-57.5°	1320.3	1288.8	1255.5	1214.6	1164.1	1107.9	1046.4	976.3	900.5	825.7	748.3
-60°	1097.4	1075.8	1051.9	1018.5	968.6	912.5	853.0	794.5	732.7	665.1	592.9
-62.5°	857.9	842.9	825.3	802.3	762.4	719.8	672.3	621.4	566.3	509.7	448.3
-65°	620.1	618.7	613.7	604.5	575.5	540.0	500.6	458.1	412.3	367.1	325.0
-67.5°	419.2	425.8	427.4	424.8	403.7	374.9	344.5	314.5	284.4	257.5	230.2
-70°	263.0	269.9	271.2	270.7	259.5	242.5	225.0	207.4	189.1	173.0	158.2
-72.5°	156.3	160.0	161.6	161.1	155.5	147.3	138.6	129.6	120.0	109.5	98.5
-75°	85.0	86.9	87.5	86.1	83.0	80.1	75.7	71.2	67.0	61.2	55.3
-77.5°	40.1	41.0	41.2	40.6	39.4	38.2	36.2	34.3	33.7	32.4	30.2
-80°	16.9	17.4	17.7	18.2	18.7	19.2	19.0	18.3	17.5	16.3	14.7
-82.5°	10.4	11.1	11.8	12.3	12.8	12.3	11.6	10.9	10.3	9.7	9.0
-85°	7.2	7.7	8.2	8.6	8.9	8.5	8.0	7.5	7.1	6.6	6.1
-87.5°	5.8	6.2	6.6	7.0	7.4	7.0	6.6	6.1	5.7	5.3	4.9
-90°	5.7	5.9	6.0	6.1	6.2	6.1	6.0	5.9	5.7	5.6	5.5



REPORT NUMBER: P670557 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-3500K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	4.3	3.9	3.6	3.2	2.9	2.5	2.5	2.6	2.6	2.6	2.7
87.5°	9.8	9.4	8.9	8.5	8.0	7.6	7.0	6.4	5.9	5.4	5.0
85°	20.4	18.2	15.9	14.5	13.3	12.1	10.5	9.0	7.8	7.0	6.1
82.5°	49.4	44.4	39.2	33.8	28.0	24.1	19.1	14.6	11.4	9.5	7.8
80°	95.4	84.8	73.8	65.1	56.8	47.8	36.9	27.1	19.7	14.5	10.1
77.5°	160.9	142.7	126.6	109.6	94.0	77.5	60.1	45.8	33.3	23.0	15.6
75°	234.6	212.6	190.9	167.7	144.1	119.3	91.1	68.1	49.6	34.8	23.3
72.5°	323.8	290.4	258.3	227.5	200.9	168.1	130.9	98.0	70.5	48.5	32.7
70°	420.4	374.1	333.2	295.0	258.3	216.0	173.8	133.3	96.9	66.2	43.4
67.5°	537.3	480.0	420.7	364.8	319.1	267.7	215.7	169.2	126.4	88.1	57.1
65°	663.3	589.1	523.8	458.1	386.7	320.5	261.6	205.8	156.2	111.9	73.1
62.5°	792.2	719.4	632.9	552.1	474.3	383.2	308.3	245.2	186.6	135.6	91.6
60°	911.8	829.6	753.4	662.1	556.3	458.0	362.9	285.3	219.5	160.1	110.1
57.5°	1048.5	947.5	851.0	769.4	654.7	530.7	426.9	328.4	253.1	186.5	128.6
55°	1180.5	1079.1	964.9	855.5	745.8	615.5	489.1	382.7	287.3	213.4	147.6
52.5°	1298.5	1199.1	1088.2	953.8	819.3	698.7	558.4	432.7	327.2	240.4	168.2
50°	1410.1	1306.0	1198.4	1060.9	904.3	767.9	632.0	488.7	369.2	267.6	188.6
47.5°	1517.2	1406.8	1291.8	1155.5	1000.4	837.2	700.7	547.8	408.5	297.8	209.6
45°	1614.7	1502.9	1376.7	1238.0	1090.7	917.9	758.1	607.9	454.9	329.3	229.8
42.5°	1708.3	1590.3	1460.1	1317.0	1164.7	1002.2	815.7	666.2	500.4	359.3	249.2
40°	1792.7	1669.3	1538.8	1395.5	1235.2	1073.6	885.9	714.3	544.0	390.0	270.2
37.5°	1869.7	1745.7	1608.3	1466.9	1306.3	1133.7	956.2	759.5	593.4	424.7	291.1
35°	1937.9	1814.0	1679.1	1533.3	1374.5	1191.9	1018.3	807.9	636.5	456.3	310.5
32.5°	1999.4	1875.8	1742.1	1590.7	1434.6	1253.1	1065.1	863.5	672.9	484.3	328.5
30°	2055.6	1930.6	1797.4	1649.1	1489.0	1310.7	1109.2	916.1	704.7	514.5	346.3
27.5°	2109.6	1980.0	1846.5	1701.1	1536.8	1361.9	1152.4	964.5	732.2	547.4	367.8
25°	2164.2	2024.3	1889.6	1746.3	1580.2	1406.3	1198.6	995.5	765.8	576.5	386.9
22.5°	2205.2	2065.5	1927.5	1784.4	1621.8	1444.5	1240.7	1022.6	800.5	598.4	402.5
20°	2240.6	2104.0	1960.9	1816.9	1657.9	1478.3	1278.1	1047.8	831.3	617.5	413.8
17.5°	2272.5	2138.4	1989.2	1844.5	1689.1	1505.7	1309.7	1069.2	858.0	633.4	422.5
15°	2299.2	2163.6	2013.0	1866.8	1713.2	1529.1	1333.7	1088.8	880.4	643.5	428.5
12.5°	2319.5	2183.1	2034.1	1884.6	1731.2	1548.9	1353.3	1109.2	898.2	650.5	434.8
10°	2333.4	2198.2	2050.3	1898.1	1744.7	1564.5	1368.2	1125.0	907.1	654.7	442.2
7.5°	2342.8	2208.5	2061.1	1907.0	1753.5	1575.3	1377.4	1135.9	910.4	655.9	446.3
5°	2348.2	2213.6	2066.2	1911.4	1757.8	1581.2	1382.1	1141.7	910.2	654.3	447.1
2.5°	2348.0	2213.6	2066.0	1911.1	1757.6	1582.2	1382.2	1142.0	906.6	649.9	444.6
0°	2342.3	2208.3	2060.7	1906.2	1753.2	1578.2	1377.7	1136.7	899.5	642.8	438.6
-2.5°	2334.1	2200.2	2052.7	1898.4	1745.5	1570.3	1370.6	1130.8	895.2	639.7	435.2
-5°	2320.5	2186.9	2039.7	1886.0	1733.5	1557.3	1359.0	1119.1	887.4	633.8	428.4
-7.5°	2301.5	2168.8	2021.6	1869.1	1717.0	1539.4	1342.8	1101.7	876.1	625.0	418.3
-10°	2278.5	2145.9	1998.1	1847.7	1696.0	1516.6	1322.2	1078.8	861.2	613.4	405.1
-12.5°	2250.8	2117.4	1969.6	1821.9	1670.3	1489.0	1295.7	1050.6	840.9	598.9	388.8
-15°	2216.3	2081.2	1936.7	1791.3	1640.1	1456.8	1264.2	1017.1	811.5	581.4	374.4
-17.5°	2174.5	2039.6	1897.8	1755.9	1603.3	1420.5	1228.3	984.7	777.5	560.8	361.3
-20°	2130.4	1993.3	1854.1	1714.9	1558.0	1379.8	1184.0	950.6	739.2	534.1	346.6

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Scaled Data Report



REPORT NUMBER: P670557 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL80DBZ-80W-3500K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2078.5	1943.8	1808.6	1668.6	1508.0	1334.0	1133.5	912.6	697.9	504.0	330.1
-25°	2016.6	1888.2	1757.1	1617.7	1453.1	1283.9	1076.4	872.7	653.3	471.0	309.3
-27.5°	1951.8	1826.1	1699.1	1557.5	1394.8	1226.1	1012.6	828.6	609.4	433.0	284.6
-30°	1886.1	1764.3	1634.9	1488.8	1332.6	1160.3	953.7	767.5	569.9	392.3	258.2
-32.5°	1809.0	1693.2	1565.4	1415.8	1266.0	1086.4	894.9	702.8	525.8	357.7	238.0
-35°	1734.0	1615.0	1482.4	1340.2	1190.7	1002.4	833.5	638.3	476.5	329.9	219.2
-37.5°	1647.5	1529.6	1395.3	1261.3	1104.5	925.9	757.2	578.3	423.7	297.3	200.1
-40°	1555.2	1432.3	1306.5	1173.2	1007.3	849.2	675.1	519.2	368.2	259.7	180.7
-42.5°	1448.4	1332.5	1213.4	1073.5	914.5	761.9	596.3	456.0	330.1	230.6	160.8
-45°	1336.7	1231.1	1108.7	960.7	822.1	664.8	523.2	390.7	288.9	205.3	140.9
-47.5°	1223.2	1116.0	989.4	857.1	714.4	574.7	448.4	335.7	242.6	179.8	120.7
-50°	1097.2	984.1	870.1	742.7	609.8	487.4	374.2	288.1	212.8	154.0	100.5
-52.5°	952.6	851.3	742.6	623.9	507.9	403.3	316.0	236.3	181.9	128.6	82.8
-55°	810.5	713.4	611.5	510.3	413.0	329.7	258.5	202.3	150.8	104.2	66.1
-57.5°	661.6	576.4	487.1	404.6	331.1	268.3	212.8	165.5	120.9	82.1	53.1
-60°	521.5	446.3	377.6	318.1	264.3	214.5	172.5	130.6	92.6	63.0	41.0
-62.5°	389.9	336.0	290.1	244.6	208.1	170.4	132.5	98.2	69.3	48.2	29.6
-65°	286.3	250.4	213.3	189.5	159.1	126.1	96.3	70.8	51.6	34.4	20.6
-67.5°	201.2	181.9	159.6	135.5	111.6	87.3	66.4	50.9	35.6	22.9	14.1
-70°	141.6	124.0	106.0	89.6	73.4	57.9	46.4	32.9	22.2	14.5	9.9
-72.5°	87.6	76.5	65.5	54.4	47.6	37.7	26.1	19.1	13.5	9.7	7.2
-75°	48.3	44.1	39.7	33.0	24.6	19.5	14.4	11.1	8.7	6.8	5.6
-77.5°	26.9	22.3	19.4	15.9	12.9	10.1	8.5	7.4	6.2	5.3	4.5
-80°	13.2	11.7	9.9	8.7	7.8	6.9	6.1	5.4	4.7	4.1	3.6
-82.5°	8.3	7.6	6.9	6.2	5.4	4.6	4.1	3.7	3.3	3.2	3.0
-85°	5.6	5.0	4.4	3.9	3.4	2.9	2.8	2.7	2.6	2.7	2.7
-87.5°	4.5	4.0	3.6	3.2	2.8	2.4	2.5	2.5	2.6	2.6	2.7
-90°	5.4	5.3	5.2	5.0	4.9	4.8	4.6	4.5	4.3	4.2	4.0

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REPORT NUMBER: P670557 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	2.7	2.7	2.8	2.8	2.8	2.9	2.9
87.5°	4.6	4.2	3.9	3.6	3.3	3.1	2.9
85°	5.4	4.7	4.2	3.8	3.4	3.1	2.9
82.5°	6.4	5.4	4.6	4.0	3.5	3.1	2.9
80°	8.0	6.3	5.1	4.2	3.6	3.2	2.9
77.5°	10.6	7.5	5.7	4.5	3.7	3.2	2.9
75°	14.6	9.4	6.5	4.8	3.9	3.2	2.9
72.5°	20.5	12.2	7.3	5.3	4.0	3.2	2.9
70°	27.1	15.8	9.1	5.7	4.1	3.3	2.9
67.5°	35.3	20.1	10.8	6.2	4.3	3.3	2.9
65°	44.4	25.2	13.0	6.9	4.5	3.3	2.9
62.5°	54.5	30.9	15.6	7.8	4.7	3.4	2.9
60°	67.7	37.2	18.1	8.6	4.9	3.4	2.9
57.5°	81.5	43.9	21.8	9.5	5.1	3.5	2.9
55°	94.7	51.4	25.4	10.8	5.2	3.5	2.9
52.5°	107.5	61.1	28.9	12.0	5.4	3.5	2.9
50°	121.6	70.2	32.9	13.1	5.7	3.6	2.9
47.5°	135.2	78.7	36.5	14.3	6.0	3.6	2.9
45°	149.9	86.5	40.2	16.1	6.3	3.6	2.9
42.5°	163.4	94.7	45.9	17.8	6.5	3.7	2.9
40°	178.1	103.4	51.1	19.4	6.6	3.7	2.9
37.5°	191.6	111.4	55.8	20.7	6.8	3.7	2.9
35°	204.3	119.5	59.8	22.1	7.0	3.7	2.9
32.5°	215.8	127.3	63.3	23.4	7.2	3.8	2.9
30°	226.1	134.2	66.3	24.4	7.4	3.8	2.9
27.5°	236.9	140.5	68.8	25.3	7.5	3.8	2.9
25°	246.3	147.1	71.2	25.9	7.6	3.8	2.9
22.5°	254.0	152.7	74.1	26.3	7.6	3.8	2.9
20°	260.5	157.3	76.4	26.9	7.5	3.8	2.9
17.5°	266.1	160.9	78.2	27.9	7.4	3.8	2.9
15°	270.1	163.5	79.4	28.6	7.3	3.8	2.9
12.5°	272.5	165.2	80.0	29.1	7.1	3.8	2.9
10°	273.2	165.8	80.0	29.2	6.9	3.8	2.9
7.5°	272.4	165.5	79.5	29.0	6.7	3.7	2.9
5°	270.1	164.3	78.5	28.6	6.4	3.7	2.9
2.5°	266.4	162.1	76.9	27.9	6.1	3.7	2.9
0°	261.2	159.0	74.9	26.9	5.8	3.7	2.9
-2.5°	259.8	158.1	74.4	26.7	5.8	3.6	2.9
-5°	257.1	156.3	73.5	26.3	5.8	3.6	2.9
-7.5°	253.1	153.7	72.1	25.6	5.8	3.6	2.9
-10°	247.9	150.2	70.3	24.7	5.7	3.6	2.9
-12.5°	241.4	145.8	68.0	23.6	5.7	3.6	2.9
-15°	233.7	140.6	65.3	22.3	5.6	3.6	2.9
-17.5°	224.9	134.6	62.2	20.8	5.6	3.6	2.9
-20°	215.0	127.8	58.6	19.1	5.5	3.6	2.9

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	204.8	120.2	54.7	17.8	5.4	3.5	2.9
-25°	194.0	111.9	50.5	16.9	5.3	3.5	2.9
-27.5°	182.2	102.8	46.9	16.0	5.1	3.5	2.9
-30°	169.5	94.5	43.6	14.9	5.0	3.4	2.9
-32.5°	156.5	86.1	39.9	13.7	4.8	3.4	2.9
-35°	142.6	77.2	36.0	12.5	4.7	3.4	2.9
-37.5°	128.1	68.4	31.8	11.3	4.5	3.3	2.9
-40°	113.2	60.6	27.6	10.1	4.4	3.3	2.9
-42.5°	97.6	52.4	23.2	8.9	4.3	3.3	2.9
-45°	84.6	45.1	18.6	7.6	4.2	3.3	2.9
-47.5°	71.1	38.6	16.0	6.3	4.1	3.2	2.9
-50°	60.0	31.8	13.9	5.8	4.0	3.2	2.9
-52.5°	49.1	25.6	11.7	5.4	3.9	3.2	2.9
-55°	39.9	19.2	9.8	5.0	3.7	3.1	2.9
-57.5°	30.8	15.3	7.9	4.7	3.6	3.1	2.9
-60°	23.0	12.3	6.1	4.4	3.5	3.0	2.9
-62.5°	16.1	9.7	5.6	4.2	3.4	3.0	2.9
-65°	12.4	7.4	5.0	3.9	3.3	3.0	2.9
-67.5°	9.2	5.9	4.5	3.7	3.2	3.0	2.9
-70°	6.7	5.1	4.1	3.5	3.1	2.9	2.9
-72.5°	5.5	4.4	3.7	3.3	3.1	2.9	2.9
-75°	4.6	3.9	3.4	3.1	3.0	2.9	2.9
-77.5°	3.9	3.4	3.2	3.0	2.9	2.9	2.9
-80°	3.3	3.1	3.0	2.9	2.9	2.9	2.9
-82.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9
-85°	2.8	2.8	2.8	2.8	2.9	2.9	2.9
-87.5°	2.7	2.7	2.8	2.8	2.8	2.9	2.9
-90°	3.9	3.7	3.5	3.4	3.2	3.1	2.9

(END OF REPORT)