

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: P670556 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL80DBZ-80W-3000K

Issue Date: 3/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P670556 (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-3000K
Description: SLIM WALL OR FLOODLIGHT
Light Source:
Ballast/Driver: -

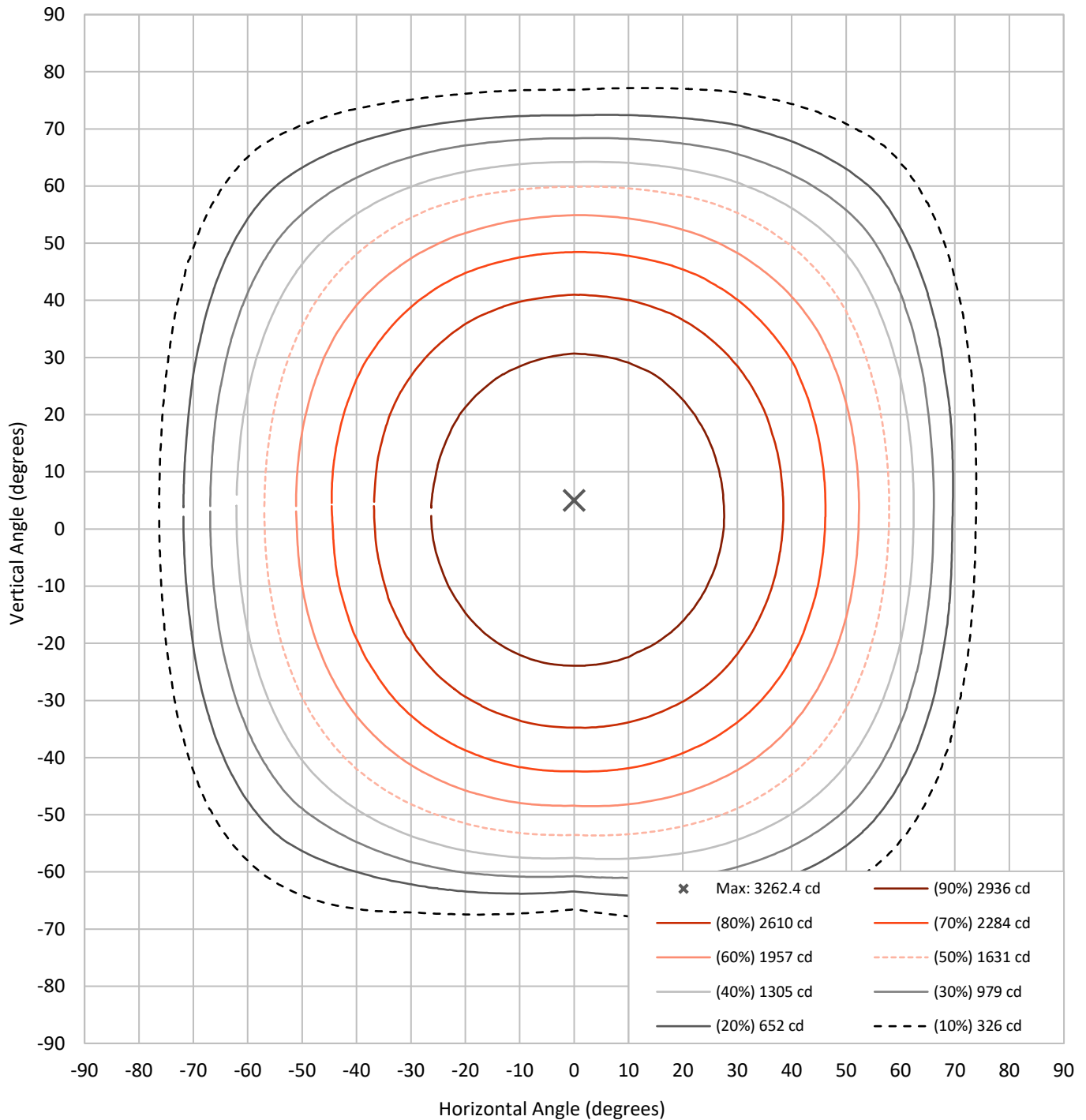
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9057.2 lumens	Max Intensity:	3262.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	113.5 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:	7256.2 lumens	Field Lumens:	8921.7 lumens
Beam Efficiency:	80.1%	Field Efficiency:	98.5%
Input Watts (W):	79.8		
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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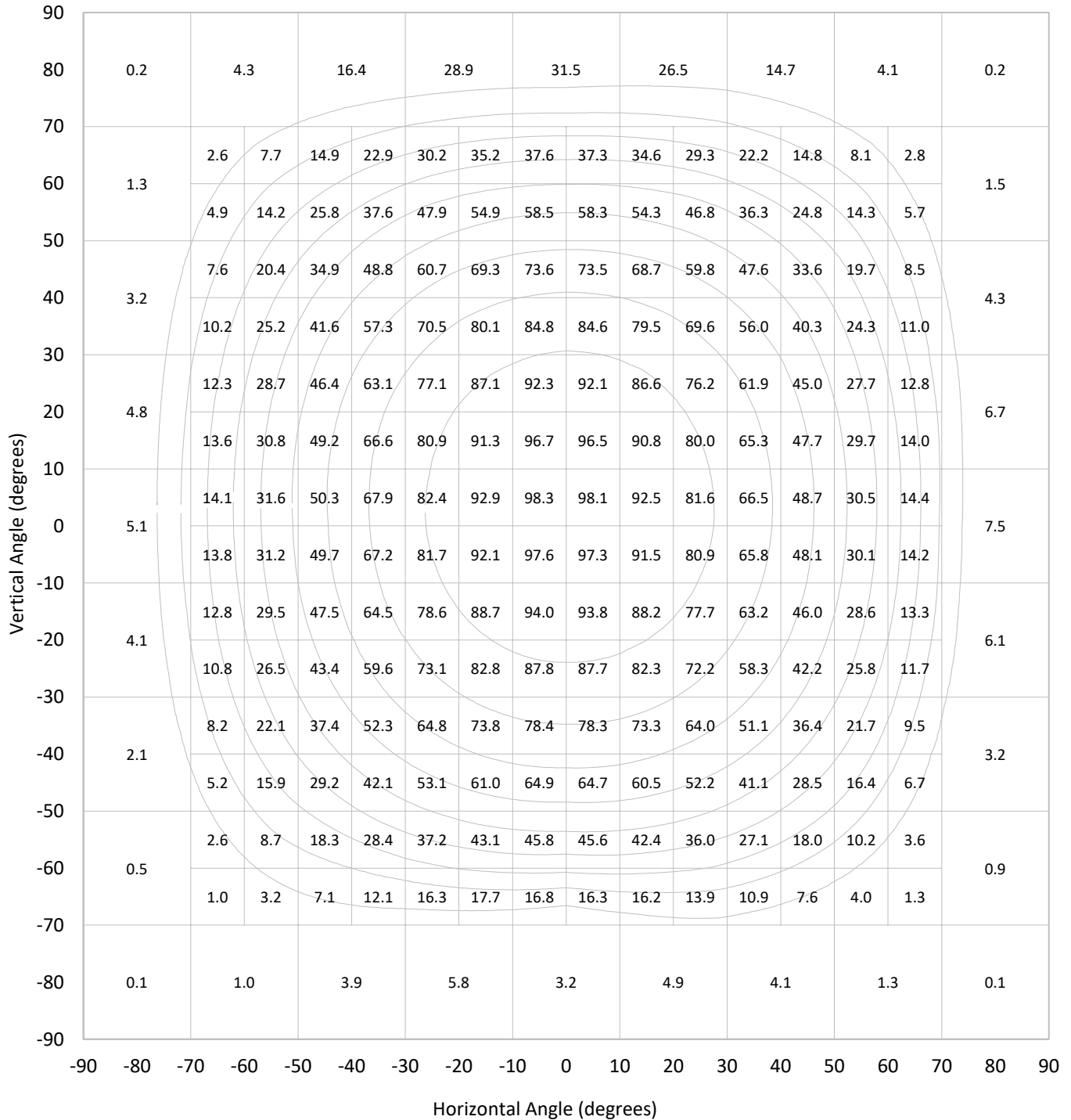
Iso-Candela Plot





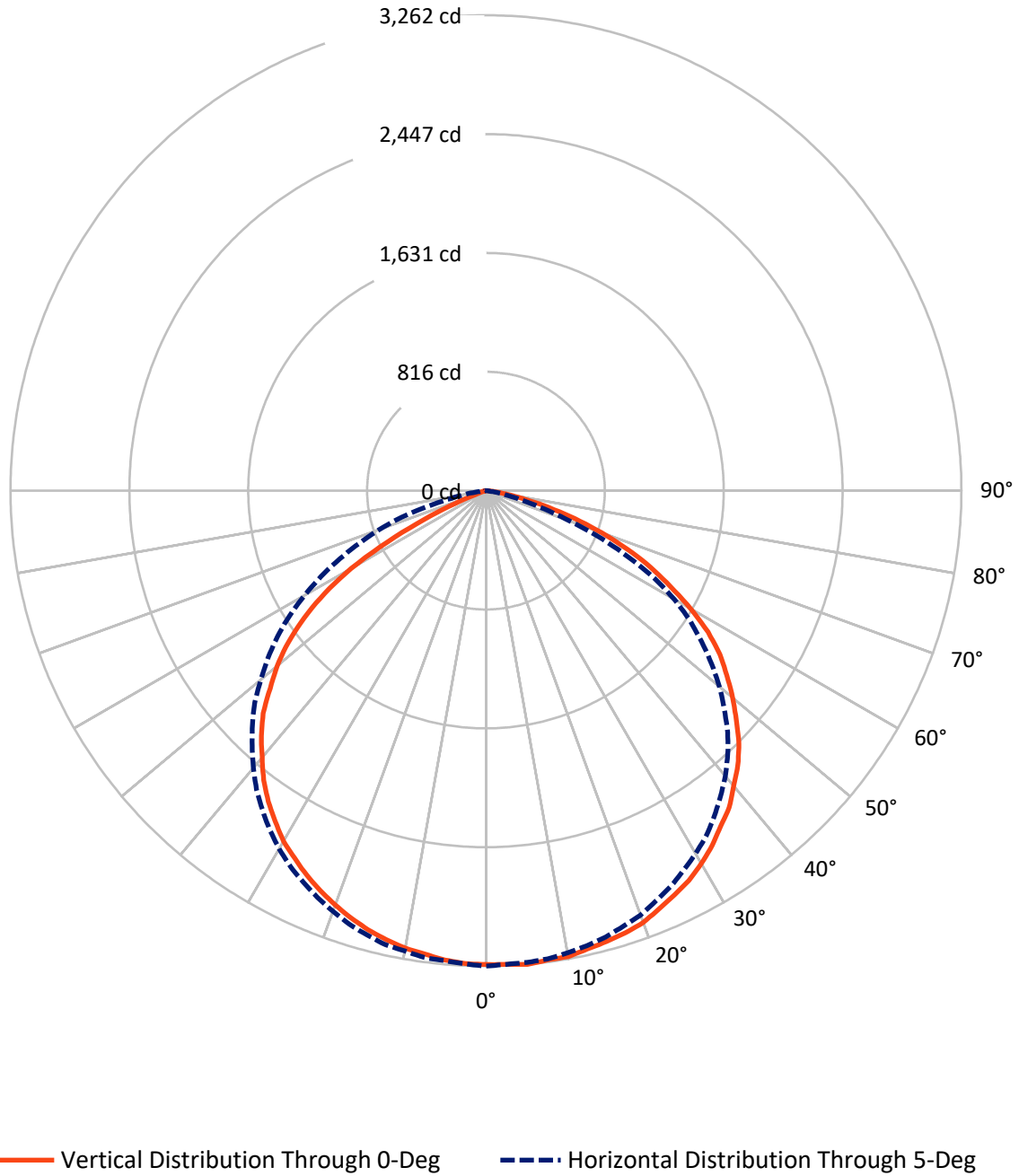
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Lumen Table



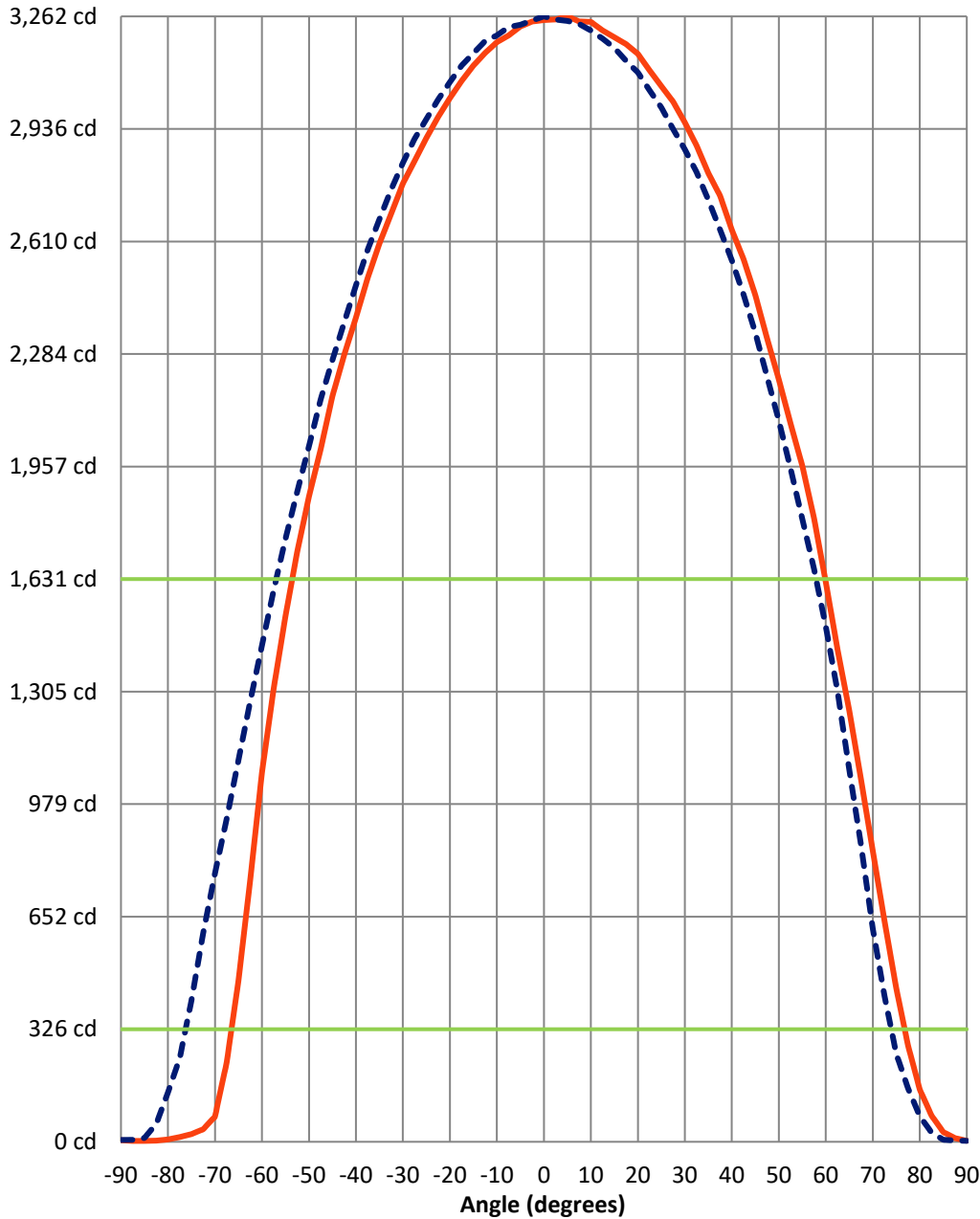
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 114.9°
 V Angle: 113.4°
 Lumens: 7256.2
 Efficiency: 80.1%

Field:
 H Angle: 150.2°
 V Angle: 143.3°
 Lumens: 8921.7
 Efficiency: 98.5%

Spill:
 Lumens: 135.5
 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°	5.3	5.2	5.2	5.1	5.0	5.0	4.9	4.8	4.8	4.7	4.6
87.5°	5.3	5.4	5.5	5.7	5.9	6.2	6.4	6.8	7.1	7.5	7.9
85°	5.3	5.4	5.6	5.9	6.3	6.7	7.3	7.9	8.7	9.5	10.6
82.5°	5.3	5.5	5.7	6.1	6.7	7.4	8.2	9.5	10.9	12.6	15.2
80°	5.3	5.5	5.8	6.4	7.1	8.2	9.6	11.4	14.8	18.7	24.9
77.5°	5.3	5.5	5.9	6.6	7.6	9.2	11.7	15.6	21.9	31.3	41.5
75°	5.3	5.5	6.0	6.9	8.3	10.7	14.8	22.8	33.2	44.7	60.6
72.5°	5.3	5.6	6.2	7.2	8.9	12.9	20.7	31.6	44.1	65.2	91.0
70°	5.3	5.6	6.3	7.6	10.4	16.4	27.3	40.4	63.4	93.6	125.3
67.5°	5.3	5.6	6.4	7.9	11.9	21.2	34.1	56.0	88.4	123.0	159.0
65°	5.3	5.6	6.5	8.5	14.2	26.1	43.9	75.5	114.0	153.0	201.0
62.5°	5.3	5.7	6.7	9.4	17.3	31.0	57.0	98.7	137.7	189.9	250.8
60°	5.3	5.7	6.8	10.2	20.3	38.1	74.6	117.6	169.6	231.2	305.5
57.5°	5.3	5.7	6.9	11.0	23.7	47.8	93.4	140.3	203.4	275.8	365.0
55°	5.3	5.8	7.0	12.8	26.9	58.8	108.2	167.5	238.2	323.8	429.6
52.5°	5.3	5.8	7.2	14.5	30.6	73.3	123.4	194.8	273.7	376.1	486.8
50°	5.3	5.8	7.6	16.0	37.2	87.4	145.8	221.6	312.3	428.9	544.9
47.5°	5.3	5.8	7.9	17.6	43.4	97.9	167.5	248.8	353.7	478.1	603.1
45°	5.3	5.8	8.2	19.3	50.0	107.9	187.4	276.3	397.1	526.0	658.7
42.5°	5.3	5.9	8.4	21.0	59.7	120.9	206.3	303.9	437.9	574.4	709.3
40°	5.3	5.9	8.7	22.5	69.0	137.1	225.2	334.8	476.7	622.9	753.1
37.5°	5.3	5.9	8.9	23.9	77.7	152.5	242.8	366.6	512.6	665.3	799.4
35°	5.3	5.9	9.4	26.6	84.4	165.9	260.5	397.0	549.3	703.2	842.3
32.5°	5.3	5.9	9.9	29.6	90.1	177.7	277.6	426.0	586.8	736.1	880.1
30°	5.3	5.9	10.3	32.3	95.2	188.5	293.0	452.6	620.1	769.4	913.3
27.5°	5.3	5.9	10.7	34.7	99.8	198.4	312.0	475.5	649.0	801.3	943.4
25°	5.3	5.9	11.0	36.9	105.2	207.5	329.9	496.2	675.1	828.6	975.9
22.5°	5.3	5.9	11.3	38.8	113.0	215.4	345.8	516.9	695.4	852.3	1005.4
20°	5.3	5.9	11.5	41.1	120.0	222.2	360.3	538.2	713.4	872.9	1030.3
17.5°	5.3	5.9	11.6	44.0	126.1	227.8	373.8	557.1	729.3	889.2	1051.9
15°	5.3	5.8	11.7	46.5	131.3	232.8	385.2	573.4	744.6	902.9	1069.8
12.5°	5.3	5.8	11.7	48.6	135.7	237.0	394.7	586.1	757.1	913.8	1083.8
10°	5.3	5.8	11.6	50.1	139.1	240.1	401.9	595.0	766.9	924.1	1094.6
7.5°	5.3	5.8	11.5	51.2	141.6	241.9	407.1	601.4	773.8	931.9	1102.2
5°	5.3	5.8	11.4	51.8	143.2	242.5	410.0	605.2	778.0	936.6	1106.4
2.5°	5.3	5.7	11.2	51.8	143.8	242.0	410.6	606.4	779.3	938.0	1107.3
0°	5.3	5.7	11.0	51.5	143.5	240.4	409.0	605.1	777.8	936.1	1104.9
-2.5°	5.3	5.7	11.0	50.9	141.9	238.2	405.1	600.2	772.3	930.6	1099.2
-5°	5.3	5.7	10.9	49.9	139.4	235.0	398.9	592.7	764.0	921.8	1090.2
-7.5°	5.3	5.7	10.8	48.4	135.9	230.7	390.5	582.6	752.9	909.7	1077.8
-10°	5.3	5.7	10.7	46.5	131.6	225.4	379.8	569.9	739.0	894.4	1062.1
-12.5°	5.3	5.7	10.6	44.1	126.3	219.2	367.0	554.6	722.3	876.8	1043.1
-15°	5.3	5.7	10.4	41.4	120.3	211.9	352.1	535.4	702.8	858.4	1020.9
-17.5°	5.3	5.7	10.2	38.2	113.4	204.3	335.1	512.6	680.7	837.3	995.0
-20°	5.3	5.7	9.9	34.6	105.8	196.3	316.1	487.2	658.2	813.4	965.9

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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°	5.3	5.7	9.6	31.9	97.4	187.7	297.3	459.3	633.8	785.0	933.4
-25°	5.3	5.7	9.3	29.7	88.4	178.3	278.1	432.6	607.3	753.3	896.0
-27.5°	5.3	5.7	8.9	27.3	81.9	168.2	257.5	406.6	574.0	718.1	855.7
-30°	5.3	5.7	8.6	24.8	76.4	157.3	236.6	378.5	537.4	678.7	817.4
-32.5°	5.3	5.6	8.2	22.1	70.6	145.6	220.3	346.0	496.4	638.4	775.7
-35°	5.3	5.6	7.7	19.3	64.5	133.2	203.2	310.9	451.1	599.6	728.5
-37.5°	5.3	5.6	7.3	16.8	57.6	119.4	186.3	277.0	408.0	554.1	677.1
-40°	5.3	5.6	7.1	15.5	49.4	103.3	170.5	245.8	367.6	502.4	623.2
-42.5°	5.3	5.6	6.9	14.2	40.9	86.8	154.2	217.1	322.8	444.9	573.8
-45°	5.3	5.6	6.7	12.8	32.3	73.9	136.5	193.4	275.2	389.5	513.4
-47.5°	5.3	5.6	6.5	11.4	27.0	64.6	118.1	171.0	236.4	337.9	447.0
-50°	5.3	5.5	6.3	10.4	22.4	55.1	97.4	150.3	201.7	281.0	380.3
-52.5°	5.3	5.5	6.0	9.5	17.6	43.8	75.9	128.1	172.3	232.0	318.8
-55°	5.3	5.5	5.9	8.6	15.1	32.4	62.8	104.8	147.8	191.3	253.1
-57.5°	5.3	5.5	5.9	7.7	13.1	24.9	50.8	79.9	121.8	158.1	202.4
-60°	5.3	5.4	5.8	7.2	11.0	19.0	37.6	60.8	94.4	130.3	162.3
-62.5°	5.3	5.4	5.8	6.8	9.7	14.9	25.9	46.6	66.8	99.4	130.0
-65°	5.3	5.4	5.7	6.3	8.4	12.4	19.2	32.2	49.6	69.5	96.3
-67.5°	5.3	5.4	5.6	6.0	7.5	10.3	14.5	21.9	34.2	47.8	64.3
-70°	5.3	5.4	5.6	5.9	6.8	8.7	11.5	15.2	21.9	31.6	41.8
-72.5°	5.3	5.3	5.5	5.8	6.2	7.5	9.5	12.0	14.9	19.9	25.9
-75°	5.3	5.3	5.5	5.7	6.0	6.7	7.8	9.6	11.5	13.8	16.6
-77.5°	5.3	5.3	5.4	5.6	5.8	6.2	6.8	7.8	9.1	10.5	12.1
-80°	5.3	5.3	5.3	5.5	5.6	5.9	6.2	6.5	7.4	8.2	9.2
-82.5°	5.3	5.3	5.3	5.3	5.5	5.6	5.8	6.0	6.3	6.6	7.2
-85°	5.3	5.3	5.3	5.3	5.3	5.4	5.4	5.6	5.7	5.8	6.0
-87.5°	5.3	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.3
-90°	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.8	5.8	5.9	6.0



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 CATALOG NUMBER: ARFL80DBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	4.6	4.5	4.8	5.0	5.3	5.5	5.8	6.1	6.3	6.6	6.8
87.5°	8.5	9.0	9.2	9.3	9.5	9.6	9.7	9.8	9.9	10.0	10.1
85°	11.9	13.3	14.0	14.7	15.4	16.7	17.8	18.9	19.9	20.7	21.5
82.5°	18.5	22.2	24.7	29.4	33.8	37.8	41.6	45.4	49.1	52.7	56.2
80°	33.5	42.9	49.4	55.2	61.9	71.5	80.5	89.3	98.7	107.4	115.5
77.5°	52.4	66.7	81.4	95.2	109.8	123.7	136.4	148.5	160.2	171.6	182.1
75°	81.5	105.9	127.0	144.3	161.2	178.5	195.9	217.9	238.0	258.5	276.6
72.5°	120.1	147.4	172.5	194.7	224.5	254.4	285.1	314.8	343.2	371.9	400.0
70°	156.3	190.8	231.2	270.9	311.1	353.2	394.3	434.8	472.8	510.8	547.7
67.5°	200.8	251.8	309.9	363.1	416.0	465.8	511.5	560.1	608.2	657.1	701.8
65°	258.3	325.5	402.4	465.6	517.5	575.5	632.0	687.6	741.1	792.9	846.2
62.5°	323.0	406.9	490.8	556.0	621.5	684.1	745.8	805.8	869.5	927.0	981.7
60°	394.2	485.1	571.6	649.2	718.2	785.4	856.7	924.2	988.3	1052.7	1116.2
57.5°	464.9	559.1	651.8	736.0	809.1	888.7	961.9	1034.7	1108.6	1180.2	1251.0
55°	530.5	633.0	728.5	817.1	903.3	983.6	1065.3	1148.0	1226.7	1309.0	1390.3
52.5°	597.5	703.2	799.1	899.5	989.6	1078.9	1169.5	1257.5	1347.3	1440.2	1523.1
50°	662.1	767.1	874.6	975.0	1076.1	1174.1	1270.0	1366.4	1466.5	1553.7	1634.2
47.5°	721.9	833.4	942.1	1050.3	1161.7	1264.8	1368.1	1473.4	1568.7	1654.7	1735.1
45°	775.4	895.0	1007.6	1127.0	1239.8	1351.2	1463.9	1567.5	1660.4	1747.8	1836.4
42.5°	833.1	951.2	1074.5	1194.6	1315.9	1438.6	1549.6	1650.4	1746.2	1841.9	1928.6
40°	883.7	1007.5	1137.6	1265.4	1393.0	1512.8	1623.8	1730.1	1833.4	1928.5	2017.9
37.5°	929.6	1063.5	1195.6	1327.4	1459.0	1580.7	1698.2	1809.8	1912.4	2010.4	2097.7
35°	973.8	1115.5	1254.3	1393.2	1522.9	1646.6	1765.1	1880.4	1987.8	2082.5	2168.9
32.5°	1019.4	1161.4	1303.9	1445.8	1577.3	1704.3	1827.6	1945.4	2054.1	2144.7	2234.8
30°	1061.1	1209.0	1356.3	1497.0	1632.0	1760.1	1884.5	2003.6	2105.7	2205.7	2297.7
27.5°	1098.6	1250.5	1400.5	1541.7	1678.4	1809.8	1935.4	2051.1	2159.2	2258.5	2355.3
25°	1131.3	1285.3	1438.8	1583.1	1720.8	1854.4	1980.5	2091.4	2201.8	2307.0	2399.8
22.5°	1162.7	1321.2	1473.8	1621.5	1759.1	1892.9	2017.3	2134.9	2244.8	2347.9	2442.6
20°	1192.6	1353.2	1504.2	1652.2	1792.9	1925.6	2048.1	2168.5	2280.6	2380.0	2476.5
17.5°	1217.4	1377.2	1530.7	1678.9	1821.1	1953.8	2075.7	2198.4	2309.0	2411.7	2511.1
15°	1235.5	1397.5	1553.4	1700.9	1844.2	1975.6	2103.7	2225.3	2331.4	2431.8	2535.8
12.5°	1250.0	1413.9	1571.7	1718.4	1860.9	1992.3	2124.0	2244.1	2349.6	2452.3	2555.3
10°	1261.5	1426.2	1585.6	1732.5	1872.9	2004.6	2137.3	2257.2	2364.5	2472.5	2570.4
7.5°	1270.9	1434.4	1594.5	1742.2	1880.6	2012.5	2146.6	2264.0	2374.3	2480.3	2580.5
5°	1276.2	1438.6	1599.0	1747.4	1884.0	2016.1	2152.1	2266.0	2374.9	2482.5	2585.7
2.5°	1277.5	1438.8	1599.5	1747.9	1882.9	2015.0	2152.4	2263.4	2370.8	2479.6	2585.7
0°	1274.7	1435.0	1595.7	1743.6	1877.1	2009.3	2147.5	2256.4	2362.9	2471.8	2579.8
-2.5°	1268.4	1429.2	1589.1	1737.4	1871.1	2003.3	2140.1	2250.5	2358.1	2465.8	2572.5
-5°	1258.1	1419.4	1578.3	1726.3	1860.6	1992.5	2127.3	2240.2	2349.4	2455.3	2559.3
-7.5°	1243.8	1405.6	1563.1	1710.4	1845.5	1976.9	2109.2	2225.1	2336.0	2440.0	2540.7
-10°	1225.5	1387.8	1543.6	1689.7	1826.1	1956.6	2087.1	2204.9	2312.0	2419.7	2515.2
-12.5°	1205.2	1365.8	1519.9	1664.1	1802.3	1931.6	2060.6	2179.1	2281.9	2386.0	2484.2
-15°	1181.8	1339.6	1492.1	1636.0	1773.7	1901.9	2028.0	2148.7	2250.5	2352.0	2449.8
-17.5°	1154.8	1309.2	1460.0	1603.9	1741.4	1867.3	1989.6	2108.0	2214.4	2318.2	2414.2
-20°	1121.8	1274.9	1423.2	1565.4	1704.4	1827.3	1948.1	2063.4	2171.6	2267.1	2365.9



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 CATALOG NUMBER: ARFL80DBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1084.1	1234.2	1382.4	1521.6	1656.9	1782.1	1902.2	2016.0	2125.0	2222.0	2317.9
-25°	1044.4	1189.8	1336.8	1475.1	1607.4	1733.8	1851.0	1962.7	2065.4	2164.4	2252.4
-27.5°	1002.8	1145.8	1287.3	1424.3	1553.1	1681.3	1794.0	1904.8	2007.2	2105.3	2196.3
-30°	957.3	1096.1	1232.6	1368.4	1492.8	1616.4	1731.3	1841.1	1943.5	2035.4	2128.7
-32.5°	908.1	1041.3	1172.3	1305.5	1431.3	1549.7	1668.4	1770.4	1872.6	1966.3	2052.2
-35°	854.2	985.6	1113.3	1240.0	1365.2	1476.3	1590.1	1698.2	1794.6	1887.5	1974.4
-37.5°	801.2	925.7	1047.8	1166.6	1288.3	1403.6	1508.2	1614.9	1709.2	1800.7	1887.0
-40°	745.5	861.7	980.1	1095.0	1209.2	1322.7	1424.5	1524.0	1622.6	1706.7	1790.8
-42.5°	684.2	796.1	908.8	1018.5	1124.5	1233.3	1337.0	1427.2	1522.2	1612.4	1689.8
-45°	618.2	729.1	833.4	939.4	1040.5	1136.3	1233.5	1329.6	1413.7	1502.2	1584.3
-47.5°	559.2	655.8	757.4	855.6	953.0	1037.5	1123.9	1215.3	1303.0	1381.8	1463.3
-50°	488.1	581.6	676.5	769.7	857.5	933.5	1010.5	1092.0	1178.5	1256.9	1330.6
-52.5°	411.1	510.3	590.6	680.3	756.3	823.0	893.1	964.4	1039.5	1120.0	1191.2
-55°	338.6	425.4	514.7	585.3	652.2	712.6	770.7	833.1	896.6	963.5	1033.6
-57.5°	266.4	342.5	421.1	498.2	545.5	600.5	651.6	700.8	751.3	806.7	862.8
-60°	205.0	263.1	330.6	395.0	452.2	492.1	533.1	574.0	613.5	652.0	693.0
-62.5°	158.4	195.5	243.9	299.1	347.6	392.4	429.0	452.4	482.6	510.9	538.7
-65°	122.4	145.7	175.3	208.6	253.0	289.9	323.1	351.6	373.1	384.5	400.7
-67.5°	85.5	108.4	125.9	148.1	171.9	198.3	227.4	250.0	268.8	283.7	294.2
-70°	53.0	68.4	86.7	103.2	116.1	132.1	147.6	161.8	179.5	191.8	198.7
-72.5°	32.1	40.1	50.0	61.0	74.7	86.0	94.4	102.7	110.4	117.6	123.0
-75°	19.5	23.1	26.6	33.6	39.4	46.3	51.7	59.0	64.2	67.9	70.3
-77.5°	13.6	15.1	16.7	18.6	21.2	23.2	26.7	29.0	30.9	32.2	32.1
-80°	10.3	11.3	12.1	12.8	13.4	14.3	15.1	15.7	16.6	17.1	17.2
-82.5°	7.8	8.5	9.0	9.5	10.0	10.3	10.6	10.9	11.1	11.2	11.3
-85°	6.3	6.5	6.9	7.2	7.5	7.8	8.1	8.3	8.4	8.5	8.6
-87.5°	5.3	5.4	5.7	6.0	6.3	6.6	6.8	7.1	7.3	7.6	7.8
-90°	6.0	6.1	6.0	6.0	5.9	5.8	5.8	5.7	5.6	5.6	5.5



REPORT NUMBER: P670556 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	7.1	7.3	7.6	7.2	6.8	6.4	6.0	5.6	5.3	4.9	4.5
87.5°	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	10.9	10.9	10.9
85°	22.9	24.4	25.7	26.9	27.8	28.5	29.1	29.5	29.8	29.9	29.8
82.5°	60.6	65.1	69.2	72.1	74.4	76.2	77.8	79.2	80.1	80.6	80.6
80°	122.9	129.8	136.1	140.8	144.6	148.1	151.0	153.3	155.0	156.0	156.5
77.5°	194.1	205.9	216.3	225.7	234.9	243.4	251.1	257.9	264.2	269.9	274.3
75°	293.8	309.3	322.2	340.4	358.9	375.4	391.0	406.2	418.9	429.1	436.9
72.5°	427.7	455.9	482.6	507.4	530.9	553.7	575.8	594.6	610.2	622.4	631.3
70°	585.2	624.2	660.1	691.6	719.9	745.8	768.9	789.4	806.5	820.5	831.4
67.5°	745.0	786.9	828.0	866.6	897.7	925.4	950.6	972.8	992.5	1009.3	1024.1
65°	896.5	942.0	984.7	1024.9	1062.4	1097.5	1127.4	1154.2	1178.4	1200.0	1217.7
62.5°	1035.2	1088.9	1138.1	1185.0	1229.2	1269.4	1304.9	1336.1	1363.6	1386.2	1403.8
60°	1176.8	1236.9	1296.9	1355.7	1408.4	1453.1	1491.8	1522.9	1550.2	1572.2	1590.1
57.5°	1322.8	1394.1	1465.0	1528.1	1580.0	1616.9	1653.1	1686.9	1715.2	1739.7	1761.4
55°	1473.5	1544.5	1606.2	1664.9	1716.4	1754.5	1791.4	1827.3	1861.7	1890.9	1911.8
52.5°	1597.4	1666.7	1727.1	1781.3	1836.7	1884.8	1921.1	1958.1	1990.3	2016.4	2038.3
50°	1708.1	1773.7	1843.2	1898.8	1954.7	2004.2	2045.1	2081.0	2114.0	2142.8	2165.5
47.5°	1813.1	1883.2	1951.3	2013.2	2068.3	2120.4	2163.8	2200.9	2233.5	2261.8	2285.6
45°	1912.7	1988.4	2056.0	2119.8	2176.3	2230.6	2276.9	2315.0	2346.7	2375.4	2400.1
42.5°	2010.6	2085.0	2152.6	2218.1	2279.9	2332.6	2377.7	2416.5	2451.9	2482.7	2508.2
40°	2098.8	2171.8	2244.7	2309.8	2369.1	2422.6	2472.4	2516.4	2550.8	2579.0	2600.8
37.5°	2177.8	2255.6	2327.0	2392.8	2452.7	2512.6	2561.7	2601.1	2631.7	2664.5	2690.4
35°	2252.1	2331.0	2403.3	2471.0	2533.3	2588.3	2635.9	2679.8	2714.3	2745.2	2769.3
32.5°	2321.3	2400.1	2474.6	2541.8	2602.2	2658.3	2707.0	2751.7	2787.1	2814.9	2838.9
30°	2384.4	2463.8	2537.6	2605.3	2666.1	2722.1	2771.3	2813.8	2849.2	2873.7	2899.8
27.5°	2439.0	2520.3	2595.9	2662.5	2723.9	2777.5	2823.8	2863.3	2905.0	2934.3	2957.7
25°	2489.7	2573.6	2646.6	2713.9	2770.9	2823.8	2871.6	2916.6	2951.5	2990.4	3013.8
22.5°	2534.8	2617.8	2691.4	2753.8	2812.3	2868.3	2916.6	2962.4	2998.8	3038.8	3058.2
20°	2572.1	2655.5	2728.0	2789.3	2853.4	2906.7	2957.3	2998.5	3038.1	3074.5	3094.7
17.5°	2602.2	2685.9	2754.1	2826.8	2886.7	2938.8	2984.3	3029.5	3073.5	3101.3	3132.7
15°	2628.7	2708.2	2780.2	2852.0	2909.1	2960.7	3011.0	3059.1	3096.4	3129.8	3156.8
12.5°	2649.9	2726.0	2806.1	2874.2	2932.0	2980.7	3033.5	3079.3	3120.7	3154.1	3181.0
10°	2660.6	2739.7	2822.2	2887.9	2942.4	3002.2	3052.3	3099.1	3137.5	3171.5	3197.9
7.5°	2668.6	2752.6	2832.0	2900.9	2953.9	3015.9	3064.2	3113.4	3154.6	3179.2	3207.8
5°	2674.2	2760.4	2837.7	2907.7	2964.7	3021.3	3071.8	3119.9	3155.7	3190.8	3207.3
2.5°	2675.0	2761.7	2838.1	2904.7	2970.1	3021.7	3073.2	3120.9	3156.4	3187.7	3214.1
0°	2669.9	2756.9	2832.9	2898.6	2968.7	3016.7	3068.4	3114.7	3154.3	3184.1	3215.1
-2.5°	2661.4	2747.5	2822.1	2891.7	2958.4	3008.7	3057.4	3103.5	3140.5	3170.4	3197.4
-5°	2646.3	2732.3	2807.4	2880.5	2941.0	2996.4	3043.2	3086.7	3119.2	3155.4	3176.1
-7.5°	2625.2	2712.0	2790.2	2860.1	2917.5	2976.5	3023.9	3067.0	3096.6	3129.5	3159.6
-10°	2602.0	2688.8	2764.8	2832.8	2893.7	2951.1	2995.8	3031.6	3068.9	3100.3	3133.6
-12.5°	2579.8	2659.1	2730.8	2789.9	2862.6	2918.5	2966.0	3010.6	3044.1	3072.3	3097.3
-15°	2546.1	2620.0	2695.3	2767.0	2825.4	2884.4	2933.0	2977.2	3013.6	3040.7	3060.0
-17.5°	2501.6	2580.6	2659.4	2716.7	2773.4	2839.3	2890.9	2933.5	2974.0	3004.3	3028.6
-20°	2453.0	2540.6	2605.5	2678.3	2737.2	2786.7	2841.2	2886.5	2922.7	2955.5	2985.5



REPORT NUMBER: P670556 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2405.0	2483.2	2559.2	2623.2	2686.1	2742.5	2786.3	2832.8	2868.8	2899.1	2925.2
-25°	2347.3	2426.5	2504.8	2566.7	2626.3	2684.4	2732.0	2771.4	2817.9	2838.4	2865.1
-27.5°	2281.8	2365.9	2436.3	2508.6	2562.7	2613.8	2666.9	2709.2	2747.5	2776.1	2807.9
-30°	2213.0	2294.6	2370.2	2432.8	2496.4	2544.6	2591.2	2630.4	2675.8	2704.9	2730.5
-32.5°	2138.8	2214.5	2289.7	2358.8	2415.6	2470.3	2515.2	2554.3	2589.3	2618.5	2645.4
-35°	2055.2	2134.7	2202.8	2267.7	2331.0	2388.2	2429.7	2472.3	2505.7	2532.8	2558.9
-37.5°	1967.7	2042.1	2114.5	2177.0	2229.7	2287.6	2337.8	2381.5	2409.2	2440.1	2464.4
-40°	1870.1	1944.3	2014.1	2077.1	2139.1	2182.8	2226.1	2270.9	2307.6	2338.2	2362.0
-42.5°	1764.4	1836.0	1903.2	1969.0	2024.8	2074.8	2125.2	2160.2	2192.3	2220.5	2244.9
-45°	1657.8	1721.4	1784.5	1845.0	1899.9	1955.3	1999.6	2036.5	2068.4	2098.5	2121.8
-47.5°	1538.8	1607.5	1664.1	1716.6	1767.4	1816.3	1862.1	1902.1	1936.4	1962.7	1982.9
-50°	1404.1	1474.6	1536.2	1591.1	1636.7	1678.3	1718.3	1756.6	1789.8	1817.4	1839.0
-52.5°	1259.1	1320.8	1386.1	1444.4	1494.5	1537.2	1575.1	1607.8	1637.3	1661.0	1680.7
-55°	1106.1	1163.7	1218.8	1269.6	1320.3	1370.2	1408.2	1440.9	1467.4	1489.4	1506.3
-57.5°	921.8	982.3	1043.2	1093.6	1134.6	1172.4	1208.3	1240.7	1269.2	1292.3	1309.5
-60°	738.6	783.3	830.5	877.7	921.6	960.0	993.5	1016.5	1037.1	1054.7	1068.7
-62.5°	565.9	591.0	623.3	655.2	686.1	714.6	740.2	761.3	777.9	789.3	795.2
-65°	415.6	429.0	443.7	457.2	473.5	486.7	502.7	513.8	520.5	523.9	522.6
-67.5°	298.2	297.1	298.2	300.1	306.8	311.1	312.7	313.9	311.3	304.8	296.5
-70°	202.6	203.7	200.9	198.2	197.7	194.7	188.7	180.5	172.6	161.6	147.9
-72.5°	127.5	129.4	127.3	125.3	124.2	122.2	119.1	113.8	106.4	97.5	87.5
-75°	72.2	72.8	71.7	72.5	73.4	72.7	70.9	68.1	64.0	58.8	52.7
-77.5°	32.6	32.8	31.6	32.5	34.3	35.1	35.0	34.2	32.7	30.6	27.9
-80°	17.3	16.9	15.8	15.2	14.7	14.3	13.8	13.1	12.4	11.6	10.8
-82.5°	11.4	11.4	11.3	10.9	10.4	9.8	9.2	8.6	7.9	7.2	6.5
-85°	8.7	8.7	8.8	8.3	7.9	7.4	6.9	6.4	5.8	5.3	4.7
-87.5°	8.0	8.2	8.4	7.9	7.4	6.9	6.4	6.0	5.5	5.0	4.5
-90°	5.4	5.4	5.3	5.2	5.2	5.1	5.0	5.0	4.9	4.8	4.8



REPORT NUMBER: P670556 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	4.1	3.7	3.3	2.9	3.2	3.5	3.8	4.1	4.4	4.7	4.9
87.5°	10.9	10.9	10.8	10.8	11.0	11.3	11.5	11.7	11.9	12.1	12.2
85°	29.6	29.3	28.9	28.3	29.6	30.8	31.8	32.7	33.4	33.9	34.3
82.5°	80.1	79.2	77.9	76.2	79.2	81.8	83.9	85.7	86.9	87.7	87.9
80°	156.3	155.4	153.9	151.8	157.2	161.8	165.8	168.9	171.3	172.8	173.4
77.5°	277.6	279.5	280.1	279.4	286.6	292.4	296.8	299.8	301.3	301.4	300.1
75°	442.4	445.5	446.3	445.0	451.8	456.5	459.1	459.6	457.9	454.1	448.2
72.5°	637.5	641.0	641.7	639.6	644.6	646.8	646.4	643.3	637.8	629.9	619.8
70°	839.1	843.7	845.2	843.5	847.7	848.7	846.6	841.4	833.0	821.5	806.9
67.5°	1035.9	1044.3	1048.9	1049.8	1052.4	1051.2	1046.6	1038.7	1027.7	1013.3	995.5
65°	1231.6	1241.5	1247.5	1249.5	1251.4	1249.3	1243.3	1233.3	1219.5	1201.8	1180.4
62.5°	1416.4	1424.3	1427.9	1427.2	1431.7	1432.2	1428.5	1420.6	1407.6	1389.8	1367.4
60°	1604.4	1614.8	1620.9	1622.3	1625.0	1622.8	1616.1	1605.0	1589.8	1570.5	1546.9
57.5°	1779.0	1792.6	1802.1	1807.2	1806.2	1800.8	1791.1	1777.1	1757.9	1735.0	1709.6
55°	1929.3	1943.2	1953.3	1959.4	1957.1	1950.8	1940.4	1926.0	1907.8	1884.0	1856.6
52.5°	2055.8	2068.8	2077.6	2082.2	2080.8	2075.0	2064.6	2050.0	2032.1	2010.5	1983.8
50°	2183.3	2196.7	2205.5	2209.9	2209.7	2204.7	2194.6	2179.0	2158.4	2134.4	2105.4
47.5°	2304.2	2317.0	2325.2	2329.0	2328.3	2322.9	2312.9	2298.0	2278.9	2256.4	2230.5
45°	2420.7	2436.9	2448.2	2454.3	2450.8	2442.2	2429.1	2412.1	2391.1	2366.6	2336.5
42.5°	2528.1	2542.9	2553.1	2558.3	2555.1	2547.0	2534.0	2517.7	2497.1	2468.1	2435.6
40°	2617.8	2630.7	2639.3	2643.6	2642.4	2636.7	2626.7	2612.2	2591.5	2564.0	2530.8
37.5°	2710.8	2726.2	2736.5	2742.2	2740.6	2735.4	2725.0	2705.1	2679.1	2650.6	2621.7
35°	2787.3	2798.7	2805.4	2808.1	2808.9	2806.0	2798.7	2784.2	2760.1	2741.1	2705.9
32.5°	2857.6	2871.6	2881.7	2887.8	2884.9	2877.6	2866.6	2852.3	2832.4	2809.7	2776.4
30°	2921.7	2937.2	2948.4	2954.8	2951.2	2943.5	2932.5	2915.0	2891.5	2867.4	2838.3
27.5°	2980.9	2997.3	3008.4	3015.1	3011.1	3002.2	2990.1	2972.9	2948.4	2928.2	2886.6
25°	3037.1	3048.6	3056.2	3060.1	3058.7	3052.8	3041.5	3025.0	3003.6	2973.9	2936.3
22.5°	3078.4	3095.4	3101.5	3105.8	3104.4	3099.0	3087.5	3070.9	3048.9	3016.0	2980.4
20°	3115.8	3133.9	3146.2	3153.7	3149.4	3137.2	3121.2	3111.4	3088.7	3056.3	3019.5
17.5°	3146.4	3165.0	3176.2	3181.9	3177.6	3170.0	3161.0	3147.0	3116.0	3092.2	3051.9
15°	3179.8	3193.0	3199.0	3201.8	3201.8	3196.9	3181.5	3164.4	3144.6	3117.6	3084.6
12.5°	3202.2	3215.7	3221.9	3221.7	3221.3	3215.4	3209.4	3189.1	3161.6	3133.3	3109.5
10°	3218.9	3235.4	3244.5	3246.3	3247.5	3239.1	3220.2	3203.8	3182.9	3149.2	3119.3
7.5°	3226.3	3243.8	3246.0	3247.9	3248.6	3248.3	3237.4	3209.1	3188.3	3164.9	3124.0
5°	3231.3	3238.2	3250.6	3262.4	3253.1	3249.1	3240.4	3221.4	3197.8	3171.1	3133.5
2.5°	3232.0	3244.0	3252.9	3253.6	3249.7	3247.8	3238.2	3224.1	3200.0	3172.6	3136.1
0°	3229.9	3235.4	3240.9	3251.7	3250.5	3245.8	3235.8	3215.2	3199.8	3172.1	3133.2
-2.5°	3221.1	3234.6	3242.7	3247.4	3246.5	3247.7	3235.0	3212.0	3191.9	3159.4	3122.8
-5°	3206.0	3217.6	3225.0	3233.1	3234.3	3234.5	3216.7	3201.0	3176.5	3139.1	3107.8
-7.5°	3183.3	3200.1	3205.9	3207.2	3213.6	3209.8	3199.2	3184.0	3151.1	3117.7	3085.0
-10°	3159.7	3180.9	3186.8	3187.5	3189.7	3185.5	3173.7	3149.4	3119.9	3094.5	3060.7
-12.5°	3123.9	3142.2	3154.1	3156.4	3158.2	3149.9	3132.9	3115.5	3089.2	3060.7	3024.9
-15°	3085.7	3100.8	3114.6	3119.7	3117.9	3110.6	3095.9	3069.9	3051.4	3021.5	2994.2
-17.5°	3042.8	3057.4	3069.8	3075.3	3071.9	3061.2	3049.2	3029.7	3008.2	2984.4	2952.1
-20°	3001.3	3014.5	3023.3	3025.4	3023.5	3015.5	3002.0	2983.5	2966.0	2937.0	2904.0



REPORT NUMBER: P670556 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	2948.0	2963.2	2970.2	2971.0	2970.2	2964.3	2955.7	2936.2	2905.6	2882.3	2850.0
-25°	2886.6	2899.8	2907.7	2910.0	2909.5	2902.6	2889.0	2873.1	2848.5	2825.4	2795.7
-27.5°	2822.4	2833.1	2841.2	2843.6	2843.2	2837.0	2826.8	2812.6	2790.3	2762.6	2727.4
-30°	2751.8	2765.6	2774.6	2777.9	2777.3	2770.9	2759.3	2740.6	2716.8	2689.1	2654.3
-32.5°	2668.7	2682.6	2689.1	2690.4	2691.2	2686.5	2675.4	2657.7	2636.3	2608.0	2573.5
-35°	2577.5	2591.3	2600.4	2603.7	2604.0	2597.8	2585.7	2568.9	2548.1	2523.0	2490.5
-37.5°	2483.4	2495.8	2502.5	2504.0	2505.4	2501.4	2491.4	2474.6	2453.3	2428.7	2388.8
-40°	2375.8	2385.1	2389.7	2389.2	2392.7	2390.1	2380.8	2364.5	2345.3	2320.2	2287.5
-42.5°	2263.2	2274.8	2280.6	2280.8	2282.8	2279.2	2270.1	2255.7	2236.5	2209.3	2177.0
-45°	2139.0	2152.0	2159.8	2161.4	2162.3	2156.9	2145.9	2130.3	2111.2	2088.4	2060.4
-47.5°	1997.9	2006.6	2009.9	2007.9	2013.3	2013.3	2008.0	1996.3	1979.3	1957.2	1929.0
-50°	1855.1	1865.6	1870.7	1870.0	1874.5	1873.2	1866.1	1853.2	1834.8	1811.6	1783.3
-52.5°	1695.9	1706.0	1710.8	1709.9	1714.6	1713.7	1707.6	1696.3	1680.4	1660.5	1633.5
-55°	1518.6	1525.8	1527.4	1523.2	1530.9	1532.7	1529.0	1520.4	1507.2	1488.8	1466.1
-57.5°	1319.2	1323.2	1321.5	1314.0	1325.2	1330.5	1330.4	1324.7	1312.7	1295.7	1273.5
-60°	1078.1	1081.9	1079.4	1069.6	1084.3	1091.7	1092.9	1088.7	1080.1	1068.0	1053.3
-62.5°	795.3	789.4	777.2	758.5	783.5	802.2	815.3	823.1	826.2	825.0	820.0
-65°	516.4	505.2	488.8	467.1	497.9	523.6	544.2	560.0	571.2	578.0	583.3
-67.5°	285.5	270.8	252.5	230.4	263.0	291.8	316.8	337.9	356.2	373.2	386.4
-70°	131.8	113.8	94.2	73.3	103.5	132.3	159.2	183.6	205.1	223.1	237.2
-72.5°	76.1	63.7	50.3	36.5	55.3	73.4	90.4	105.9	119.4	131.2	140.9
-75°	45.9	38.4	30.5	22.3	32.4	42.1	51.3	59.6	66.9	73.0	77.5
-77.5°	24.8	21.4	17.6	13.7	18.1	22.3	26.1	29.6	32.4	34.6	36.4
-80°	9.9	8.9	7.9	6.8	8.3	9.8	11.1	12.4	13.5	14.5	15.3
-82.5°	5.7	5.0	4.2	3.4	4.3	5.2	6.0	6.9	7.7	8.4	9.2
-85°	4.2	3.6	3.1	2.5	3.1	3.7	4.2	4.8	5.3	5.9	6.4
-87.5°	4.0	3.5	3.0	2.5	2.9	3.3	3.6	4.0	4.4	4.8	5.1
-90°	4.7	4.6	4.6	4.5	4.6	4.7	4.8	4.9	5.0	5.2	5.3



REPORT NUMBER: P670556 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	5.2	5.5	5.8	6.1	6.4	6.1	5.7	5.4	5.0	4.7	4.4
87.5°	12.3	12.4	12.5	12.5	12.5	12.0	11.5	11.0	10.5	10.1	9.7
85°	34.4	34.3	34.1	33.6	32.8	30.8	28.6	26.4	24.8	23.1	21.3
82.5°	87.6	87.0	86.0	84.4	81.8	76.7	71.2	65.8	61.3	56.6	51.7
80°	173.1	171.9	169.7	166.2	160.6	150.6	140.0	129.7	120.5	110.6	100.0
77.5°	297.2	292.6	286.3	278.2	267.2	249.3	230.9	213.9	199.6	184.7	168.8
75°	440.2	432.3	423.7	413.7	398.2	374.3	349.5	323.9	297.7	271.6	246.5
72.5°	607.4	592.8	578.0	562.9	541.1	508.8	474.3	440.0	405.5	370.6	338.2
70°	789.3	769.2	746.6	722.7	692.0	655.1	614.0	572.7	532.5	488.7	443.0
67.5°	974.4	950.5	924.0	894.3	854.0	809.8	765.5	719.5	670.9	614.8	559.2
65°	1155.1	1126.0	1096.8	1066.0	1020.9	971.3	918.9	862.9	805.3	750.9	692.5
62.5°	1339.5	1305.9	1268.4	1227.9	1179.3	1127.9	1077.1	1016.6	949.9	880.7	811.1
60°	1519.5	1487.8	1451.1	1403.6	1345.4	1283.6	1224.6	1161.4	1096.6	1024.8	943.3
57.5°	1683.3	1652.5	1614.9	1565.6	1507.7	1444.9	1376.5	1303.1	1231.7	1157.4	1080.0
55°	1825.1	1790.5	1750.2	1703.5	1651.3	1587.3	1519.5	1445.3	1366.2	1282.2	1201.6
52.5°	1952.2	1916.4	1875.7	1826.5	1771.5	1710.2	1648.1	1571.9	1493.1	1407.1	1316.7
50°	2069.0	2032.8	1990.4	1939.2	1885.0	1825.1	1758.5	1686.2	1607.7	1521.2	1429.2
47.5°	2192.4	2150.0	2102.8	2045.9	1991.2	1929.0	1863.1	1790.9	1710.7	1626.9	1531.3
45°	2302.4	2265.0	2217.0	2155.5	2097.2	2027.8	1959.9	1886.9	1808.0	1720.7	1628.8
42.5°	2402.9	2363.4	2312.3	2259.4	2198.3	2130.0	2053.2	1976.7	1896.0	1810.1	1714.8
40°	2495.8	2447.7	2401.4	2351.0	2288.1	2223.1	2146.1	2066.6	1978.8	1890.8	1796.8
37.5°	2581.6	2534.7	2483.7	2428.6	2371.9	2304.0	2231.9	2148.8	2062.8	1966.4	1871.1
35°	2660.7	2615.0	2561.2	2505.4	2444.4	2378.4	2307.3	2227.0	2138.4	2041.2	1939.1
32.5°	2738.5	2687.2	2633.4	2574.5	2515.4	2446.2	2373.8	2295.5	2207.8	2115.7	2000.5
30°	2800.5	2751.2	2701.1	2640.1	2574.5	2511.3	2437.2	2359.5	2270.6	2170.6	2065.8
27.5°	2850.9	2810.0	2757.4	2698.6	2634.3	2562.2	2491.4	2414.1	2329.6	2223.6	2114.0
25°	2895.6	2856.7	2806.8	2750.8	2683.5	2615.5	2539.3	2453.2	2365.8	2269.0	2159.4
22.5°	2938.7	2893.6	2851.2	2794.8	2734.0	2660.0	2579.9	2504.1	2413.3	2314.8	2200.8
20°	2975.2	2931.0	2877.9	2830.5	2769.7	2696.9	2620.9	2534.3	2439.5	2344.3	2234.9
17.5°	3011.7	2960.5	2912.8	2854.3	2796.8	2731.4	2650.0	2564.9	2478.7	2377.6	2266.0
15°	3037.4	2987.8	2939.0	2883.5	2829.0	2755.8	2675.3	2593.5	2502.0	2400.8	2293.1
12.5°	3063.4	3016.4	2956.0	2904.8	2839.8	2774.8	2700.8	2614.4	2521.9	2417.1	2312.2
10°	3081.2	3029.8	2975.8	2917.9	2854.9	2790.0	2714.3	2628.5	2538.3	2436.6	2328.4
7.5°	3096.4	3042.7	2993.6	2928.0	2869.1	2805.2	2724.5	2637.6	2549.4	2450.2	2339.5
5°	3099.8	3047.9	2998.0	2935.8	2876.7	2810.7	2730.2	2643.9	2555.0	2455.8	2345.2
2.5°	3098.0	3047.6	2998.9	2938.7	2879.6	2808.9	2730.9	2645.2	2555.6	2456.7	2345.6
0°	3094.0	3042.2	2995.7	2936.4	2877.2	2804.3	2726.4	2641.0	2551.3	2452.7	2340.9
-2.5°	3083.7	3033.3	2986.1	2927.2	2867.6	2795.2	2716.8	2631.7	2542.5	2443.8	2332.4
-5°	3066.5	3019.3	2972.2	2913.0	2852.3	2782.9	2702.2	2617.3	2529.1	2429.8	2319.0
-7.5°	3043.5	3000.4	2954.7	2890.5	2831.5	2764.1	2682.8	2598.1	2511.1	2410.7	2300.9
-10°	3021.0	2975.0	2926.8	2863.0	2802.2	2737.8	2658.2	2573.6	2488.3	2385.9	2278.2
-12.5°	2989.6	2948.8	2896.3	2842.6	2769.8	2705.1	2627.5	2544.2	2458.1	2356.5	2247.3
-15°	2953.6	2910.9	2853.3	2804.0	2743.0	2668.3	2591.8	2511.4	2423.0	2321.9	2210.0
-17.5°	2915.0	2868.5	2821.9	2752.4	2698.6	2627.6	2550.0	2473.2	2383.0	2282.4	2169.9
-20°	2866.0	2824.1	2767.2	2717.3	2649.3	2579.8	2505.8	2427.2	2338.4	2238.6	2126.5



REPORT NUMBER: P670556 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	2815.9	2769.0	2722.4	2660.3	2597.4	2525.7	2457.0	2376.1	2283.8	2183.8	2078.1
-25°	2754.1	2713.8	2659.7	2602.8	2539.8	2473.9	2399.8	2321.5	2229.9	2127.5	2021.5
-27.5°	2690.8	2645.0	2594.3	2539.4	2478.6	2410.2	2338.0	2253.4	2163.3	2067.3	1964.2
-30°	2616.4	2572.2	2524.4	2470.5	2406.6	2340.8	2264.9	2185.0	2095.3	1998.8	1890.8
-32.5°	2538.5	2495.2	2448.0	2389.3	2330.0	2262.4	2190.7	2108.3	2018.9	1924.9	1817.5
-35°	2454.4	2404.7	2358.6	2305.3	2243.5	2180.5	2106.4	2025.6	1940.5	1837.6	1739.6
-37.5°	2352.6	2311.0	2266.7	2210.7	2155.2	2089.1	2015.5	1937.4	1844.1	1756.0	1659.2
-40°	2252.0	2207.7	2166.3	2115.3	2056.2	1988.4	1916.4	1833.0	1753.9	1663.1	1570.1
-42.5°	2143.5	2106.0	2059.5	2006.8	1944.5	1878.1	1804.8	1733.7	1652.0	1566.9	1472.3
-45°	2026.7	1986.6	1937.0	1882.4	1823.8	1762.3	1696.0	1625.0	1545.7	1458.7	1363.2
-47.5°	1891.2	1848.7	1804.2	1755.1	1703.9	1642.9	1579.3	1506.0	1426.7	1339.1	1247.5
-50°	1749.7	1713.7	1673.2	1625.7	1574.2	1514.3	1447.1	1374.4	1295.5	1213.7	1129.6
-52.5°	1603.0	1569.4	1530.2	1482.2	1427.4	1367.0	1302.1	1232.7	1160.3	1083.0	997.0
-55°	1437.6	1404.4	1364.3	1317.6	1266.4	1210.6	1151.2	1086.3	1015.6	935.9	848.3
-57.5°	1247.0	1217.2	1185.8	1147.1	1099.5	1046.4	988.3	922.1	850.5	779.9	706.8
-60°	1036.5	1016.1	993.6	962.0	914.8	861.8	805.6	750.4	692.0	628.2	559.9
-62.5°	810.2	796.0	779.4	757.8	720.1	679.8	635.1	586.9	534.8	481.4	423.5
-65°	585.7	584.4	579.6	571.0	543.5	509.9	472.8	432.7	389.4	346.6	306.9
-67.5°	395.9	402.1	403.7	401.2	381.3	354.0	325.3	297.0	268.6	243.3	217.4
-70°	248.3	254.9	256.1	255.7	245.1	229.1	212.5	195.9	178.6	163.4	149.4
-72.5°	147.6	151.1	152.6	152.2	146.9	139.1	130.9	122.4	113.3	103.4	93.1
-75°	80.3	82.1	82.6	81.2	78.3	75.6	71.5	67.2	63.3	57.8	52.3
-77.5°	37.9	38.8	38.9	38.3	37.3	36.1	34.2	32.5	31.8	30.6	28.5
-80°	16.0	16.5	16.7	17.2	17.7	18.2	17.9	17.2	16.5	15.4	13.8
-82.5°	9.8	10.5	11.1	11.6	12.0	11.6	11.0	10.3	9.7	9.1	8.5
-85°	6.9	7.3	7.8	8.2	8.5	8.1	7.6	7.2	6.7	6.3	5.8
-87.5°	5.5	5.9	6.2	6.6	6.9	6.5	6.1	5.7	5.3	4.9	4.5
-90°	5.4	5.5	5.6	5.7	5.8	5.7	5.6	5.5	5.4	5.3	5.2



REPORT NUMBER: P670556 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	4.0	3.7	3.3	3.0	2.6	2.3	2.3	2.4	2.4	2.4	2.5
87.5°	9.2	8.8	8.4	7.9	7.5	7.1	6.5	6.0	5.5	5.1	4.7
85°	19.3	17.2	15.0	13.7	12.6	11.4	9.9	8.5	7.4	6.5	5.8
82.5°	46.6	41.9	37.1	31.9	26.5	22.7	18.0	13.8	10.8	8.9	7.3
80°	90.1	80.1	69.7	61.4	53.6	45.1	34.8	25.6	18.6	13.7	9.5
77.5°	152.0	134.8	119.6	103.5	88.7	73.2	56.7	43.2	31.5	21.7	14.7
75°	221.6	200.8	180.3	158.4	136.2	112.7	86.0	64.3	46.9	32.9	22.0
72.5°	305.8	274.3	244.0	214.9	189.7	158.7	123.6	92.6	66.5	45.8	30.9
70°	397.1	353.3	314.7	278.6	244.0	204.1	164.1	125.9	91.5	62.6	41.0
67.5°	507.5	453.3	397.3	344.5	301.4	252.9	203.8	159.9	119.4	83.2	53.9
65°	626.4	556.4	494.7	432.6	365.1	302.7	247.1	194.5	147.5	105.7	69.1
62.5°	748.2	679.5	597.7	521.4	447.9	361.8	291.2	231.6	176.3	128.1	86.6
60°	861.2	783.5	711.5	625.4	525.4	432.5	342.7	269.5	207.3	151.3	104.0
57.5°	990.3	894.9	803.8	726.6	618.3	501.2	403.1	310.2	239.1	176.1	121.5
55°	1114.9	1019.2	911.3	808.0	704.3	581.3	461.9	361.4	271.3	201.5	139.4
52.5°	1226.4	1132.5	1027.8	900.9	773.8	659.8	527.4	408.7	309.0	227.1	158.9
50°	1331.9	1233.5	1131.9	1002.0	854.1	725.3	596.9	461.5	348.7	252.8	178.1
47.5°	1432.9	1328.7	1220.1	1091.4	944.9	790.7	661.8	517.4	385.8	281.2	198.0
45°	1525.0	1419.4	1300.3	1169.2	1030.2	866.9	716.0	574.1	429.7	311.0	217.1
42.5°	1613.4	1502.0	1379.0	1243.8	1100.0	946.6	770.4	629.2	472.7	339.3	235.3
40°	1693.2	1576.6	1453.3	1318.0	1166.6	1013.9	836.8	674.7	513.8	368.3	255.2
37.5°	1765.9	1648.7	1518.9	1385.4	1233.8	1070.8	903.1	717.4	560.4	401.1	274.9
35°	1830.3	1713.3	1585.9	1448.1	1298.3	1125.7	961.7	763.1	601.2	431.0	293.3
32.5°	1888.4	1771.7	1645.3	1502.4	1354.9	1183.6	1005.9	815.5	635.5	457.4	310.3
30°	1941.4	1823.4	1697.6	1557.5	1406.3	1237.9	1047.6	865.2	665.5	485.9	327.1
27.5°	1992.4	1870.0	1744.0	1606.7	1451.4	1286.3	1088.4	910.9	691.5	517.0	347.4
25°	2044.1	1911.9	1784.7	1649.3	1492.4	1328.2	1132.1	940.2	723.3	544.5	365.5
22.5°	2082.8	1950.8	1820.5	1685.3	1531.8	1364.3	1171.8	965.8	756.1	565.2	380.2
20°	2116.2	1987.2	1852.0	1716.0	1565.9	1396.2	1207.1	989.6	785.1	583.2	390.9
17.5°	2146.3	2019.7	1878.8	1742.1	1595.3	1422.1	1237.0	1009.8	810.4	598.2	399.1
15°	2171.5	2043.5	1901.2	1763.1	1618.1	1444.1	1259.6	1028.3	831.5	607.7	404.8
12.5°	2190.7	2061.9	1921.1	1780.0	1635.1	1462.9	1278.2	1047.6	848.4	614.4	410.7
10°	2203.9	2076.2	1936.5	1792.7	1647.9	1477.6	1292.2	1062.5	856.7	618.3	417.7
7.5°	2212.7	2085.8	1946.7	1801.2	1656.1	1487.8	1300.9	1072.9	859.8	619.5	421.6
5°	2217.8	2090.7	1951.5	1805.3	1660.2	1493.4	1305.3	1078.3	859.7	618.0	422.4
2.5°	2217.7	2090.7	1951.3	1805.1	1660.0	1494.4	1305.4	1078.6	856.2	613.8	419.9
0°	2212.3	2085.7	1946.3	1800.4	1655.8	1490.6	1301.2	1073.6	849.6	607.1	414.3
-2.5°	2204.5	2078.0	1938.8	1793.1	1648.6	1483.1	1294.5	1068.0	845.4	604.1	411.0
-5°	2191.7	2065.5	1926.5	1781.3	1637.2	1470.9	1283.5	1057.0	838.1	598.6	404.6
-7.5°	2173.7	2048.4	1909.4	1765.3	1621.7	1454.0	1268.2	1040.5	827.4	590.3	395.1
-10°	2152.0	2026.7	1887.1	1745.1	1601.8	1432.4	1248.7	1018.9	813.4	579.4	382.6
-12.5°	2125.8	1999.8	1860.2	1720.8	1577.5	1406.3	1223.7	992.2	794.2	565.6	367.2
-15°	2093.2	1965.6	1829.1	1691.8	1549.1	1375.9	1194.0	960.6	766.4	549.1	353.6
-17.5°	2053.8	1926.4	1792.4	1658.4	1514.3	1341.6	1160.1	930.0	734.3	529.6	341.3
-20°	2012.1	1882.6	1751.1	1619.6	1471.6	1303.1	1118.3	897.9	698.1	504.5	327.4



REPORT NUMBER: P670556 (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°	1963.1	1835.8	1708.2	1576.0	1424.2	1259.9	1070.6	861.9	659.1	476.0	311.8
-25°	1904.7	1783.4	1659.5	1527.9	1372.4	1212.6	1016.7	824.2	617.0	444.9	292.1
-27.5°	1843.4	1724.7	1604.7	1471.0	1317.4	1158.0	956.4	782.6	575.5	409.0	268.8
-30°	1781.3	1666.3	1544.2	1406.2	1258.5	1095.9	900.7	724.9	538.2	370.5	243.9
-32.5°	1708.5	1599.2	1478.5	1337.1	1195.7	1026.1	845.2	663.8	496.6	337.9	224.8
-35°	1637.7	1525.3	1400.1	1265.7	1124.6	946.8	787.2	602.8	450.1	311.6	207.0
-37.5°	1556.0	1444.7	1317.8	1191.3	1043.2	874.5	715.2	546.2	400.2	280.8	189.0
-40°	1468.9	1352.7	1233.9	1108.0	951.4	802.0	637.6	490.4	347.8	245.3	170.7
-42.5°	1368.0	1258.4	1146.0	1014.0	863.7	719.6	563.2	430.7	311.8	217.8	151.9
-45°	1262.4	1162.7	1047.2	907.4	776.4	627.9	494.2	369.1	272.9	193.9	133.1
-47.5°	1155.3	1054.0	934.5	809.5	674.7	542.8	423.5	317.0	229.2	169.7	114.0
-50°	1036.2	929.5	821.8	701.5	575.9	460.3	353.4	272.1	201.0	145.5	94.9
-52.5°	899.8	804.0	701.4	589.2	479.8	380.9	298.4	223.2	171.8	121.5	78.2
-55°	765.5	673.7	577.5	482.0	390.0	311.3	244.2	191.0	142.4	98.5	62.4
-57.5°	624.9	544.4	460.1	382.1	312.7	253.4	201.0	156.3	114.2	77.6	50.2
-60°	492.5	421.6	356.6	300.5	249.7	202.6	162.9	123.3	87.5	59.5	38.8
-62.5°	368.2	317.3	274.0	231.0	196.6	160.9	125.1	92.8	65.5	45.5	28.0
-65°	270.4	236.5	201.5	178.9	150.2	119.1	91.0	66.9	48.8	32.5	19.5
-67.5°	190.1	171.8	150.7	127.9	105.5	82.5	62.7	48.0	33.7	21.6	13.4
-70°	133.7	117.1	100.1	84.7	69.3	54.6	43.8	31.0	21.0	13.7	9.3
-72.5°	82.7	72.2	61.9	51.4	44.9	35.6	24.6	18.0	12.7	9.1	6.8
-75°	45.6	41.7	37.5	31.2	23.2	18.4	13.6	10.5	8.2	6.5	5.3
-77.5°	25.4	21.1	18.4	15.0	12.2	9.6	8.1	7.0	5.9	5.0	4.3
-80°	12.5	11.0	9.3	8.3	7.4	6.6	5.8	5.1	4.4	3.9	3.4
-82.5°	7.9	7.2	6.6	5.9	5.2	4.4	3.9	3.5	3.1	3.0	2.8
-85°	5.3	4.7	4.2	3.6	3.2	2.7	2.6	2.5	2.4	2.5	2.5
-87.5°	4.2	3.8	3.4	3.0	2.6	2.2	2.3	2.3	2.4	2.4	2.5
-90°	5.1	5.0	4.9	4.8	4.7	4.6	4.4	4.3	4.1	4.0	3.8



REPORT NUMBER: P670556 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	2.5	2.5	2.6	2.6	2.6	2.7	2.7
87.5°	4.3	4.0	3.6	3.4	3.1	2.9	2.7
85°	5.1	4.4	3.9	3.5	3.2	2.9	2.7
82.5°	6.0	5.1	4.3	3.7	3.3	2.9	2.7
80°	7.6	5.9	4.8	4.0	3.4	3.0	2.7
77.5°	10.0	7.1	5.4	4.3	3.5	3.0	2.7
75°	13.8	8.9	6.2	4.5	3.6	3.0	2.7
72.5°	19.4	11.5	6.9	5.0	3.8	3.0	2.7
70°	25.6	14.9	8.6	5.4	3.9	3.1	2.7
67.5°	33.3	19.0	10.1	5.9	4.0	3.1	2.7
65°	42.0	23.8	12.2	6.5	4.2	3.1	2.7
62.5°	51.5	29.2	14.8	7.4	4.4	3.2	2.7
60°	64.0	35.1	17.1	8.1	4.6	3.2	2.7
57.5°	77.0	41.5	20.6	8.9	4.8	3.2	2.7
55°	89.5	48.6	23.9	10.2	4.9	3.3	2.7
52.5°	101.5	57.8	27.2	11.3	5.1	3.3	2.7
50°	114.9	66.4	31.0	12.4	5.4	3.4	2.7
47.5°	127.8	74.4	34.5	13.5	5.7	3.4	2.7
45°	141.6	81.8	38.0	15.3	5.9	3.4	2.7
42.5°	154.3	89.5	43.4	16.9	6.1	3.4	2.7
40°	168.2	97.8	48.3	18.3	6.2	3.5	2.7
37.5°	181.0	105.3	52.7	19.5	6.4	3.5	2.7
35°	192.9	112.9	56.6	20.9	6.6	3.5	2.7
32.5°	203.8	120.2	59.9	22.1	6.8	3.5	2.7
30°	213.5	126.7	62.7	23.1	7.0	3.6	2.7
27.5°	223.7	132.7	65.0	23.9	7.1	3.6	2.7
25°	232.6	138.9	67.3	24.5	7.1	3.6	2.7
22.5°	239.9	144.2	70.0	24.9	7.1	3.6	2.7
20°	246.0	148.6	72.2	25.5	7.1	3.6	2.7
17.5°	251.3	152.0	73.9	26.4	7.0	3.6	2.7
15°	255.1	154.5	75.0	27.1	6.9	3.6	2.7
12.5°	257.3	156.0	75.6	27.5	6.7	3.6	2.7
10°	258.0	156.7	75.6	27.6	6.5	3.5	2.7
7.5°	257.3	156.4	75.2	27.4	6.3	3.5	2.7
5°	255.1	155.2	74.2	27.0	6.1	3.5	2.7
2.5°	251.6	153.1	72.7	26.3	5.8	3.5	2.7
0°	246.7	150.2	70.8	25.5	5.5	3.5	2.7
-2.5°	245.4	149.3	70.4	25.3	5.5	3.4	2.7
-5°	242.8	147.7	69.5	24.9	5.5	3.4	2.7
-7.5°	239.1	145.2	68.2	24.2	5.5	3.4	2.7
-10°	234.1	141.9	66.4	23.4	5.4	3.4	2.7
-12.5°	228.0	137.8	64.3	22.4	5.4	3.4	2.7
-15°	220.7	132.8	61.7	21.1	5.3	3.4	2.7
-17.5°	212.4	127.2	58.8	19.7	5.2	3.4	2.7
-20°	203.0	120.7	55.4	18.1	5.2	3.4	2.7

Classified

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

Scaled Data Report



REPORT NUMBER: P670556 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL80DBZ-80W-3000K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	193.4	113.6	51.8	16.9	5.1	3.3	2.7
-25°	183.2	105.7	47.7	16.0	5.0	3.3	2.7
-27.5°	172.1	97.1	44.4	15.1	4.8	3.3	2.7
-30°	160.1	89.3	41.2	14.1	4.7	3.2	2.7
-32.5°	147.8	81.4	37.7	13.0	4.6	3.2	2.7
-35°	134.7	72.9	34.0	11.8	4.4	3.2	2.7
-37.5°	121.0	64.7	30.1	10.6	4.2	3.1	2.7
-40°	106.9	57.2	26.1	9.5	4.2	3.1	2.7
-42.5°	92.2	49.5	21.9	8.4	4.1	3.1	2.7
-45°	79.9	42.6	17.6	7.2	4.0	3.1	2.7
-47.5°	67.2	36.5	15.2	6.0	3.9	3.0	2.7
-50°	56.7	30.1	13.1	5.5	3.8	3.0	2.7
-52.5°	46.4	24.2	11.0	5.1	3.6	3.0	2.7
-55°	37.7	18.2	9.2	4.7	3.5	2.9	2.7
-57.5°	29.1	14.4	7.5	4.4	3.4	2.9	2.7
-60°	21.7	11.6	5.8	4.2	3.3	2.8	2.7
-62.5°	15.2	9.1	5.3	3.9	3.2	2.8	2.7
-65°	11.7	7.0	4.7	3.7	3.1	2.8	2.7
-67.5°	8.7	5.6	4.2	3.5	3.0	2.8	2.7
-70°	6.3	4.8	3.9	3.3	2.9	2.7	2.7
-72.5°	5.2	4.2	3.5	3.1	2.9	2.7	2.7
-75°	4.4	3.7	3.2	2.9	2.8	2.7	2.7
-77.5°	3.6	3.2	3.0	2.8	2.7	2.7	2.7
-80°	3.1	2.9	2.8	2.7	2.7	2.7	2.7
-82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7
-85°	2.6	2.6	2.6	2.6	2.7	2.7	2.7
-87.5°	2.5	2.5	2.6	2.6	2.6	2.7	2.7
-90°	3.7	3.5	3.3	3.2	3.0	2.9	2.7

(END OF REPORT)