

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: P670555 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL80DBZ-80W-2700K

Issue Date: 3/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P670555 (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-2700K  
Description: SLIM WALL OR FLOODLIGHT  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8415.5 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.4' x L: 0.72' x H: 0.18')

NEMA Type: 7H x 7V  
Max Intensity: 3031.2 candela  
Max Intensity Angle: 0°H x 5°V

Beam Angle (50%): 114.9°H x 113.4°V  
Beam Lumens: 6742.1 lumens  
Beam Efficiency: 80.1%

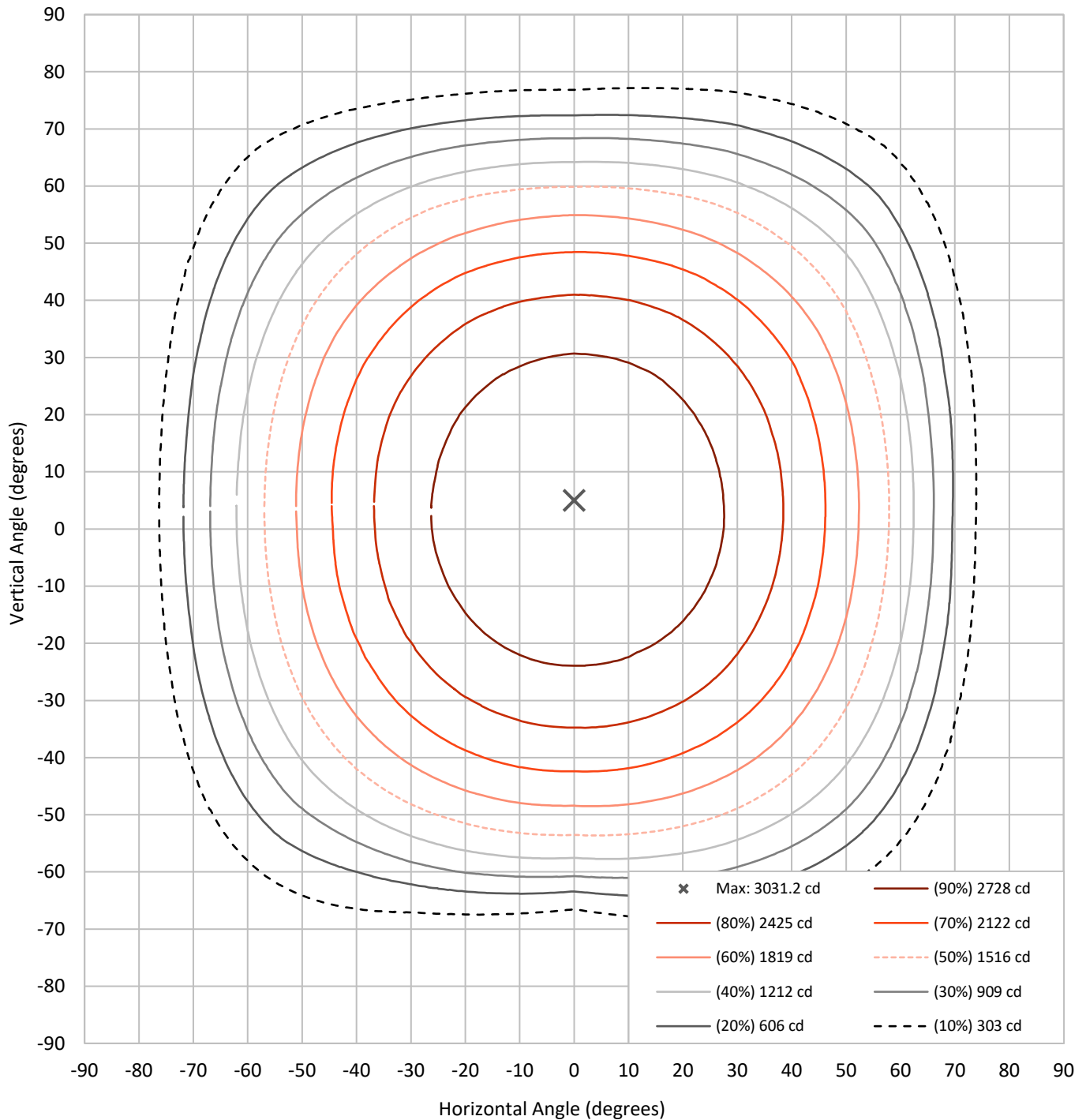
Field Angle (10%): 150.2°H x 143.3°V  
Field Lumens: 8289.6 lumens  
Field Efficiency: 98.5%

Input Watts (W): 79  
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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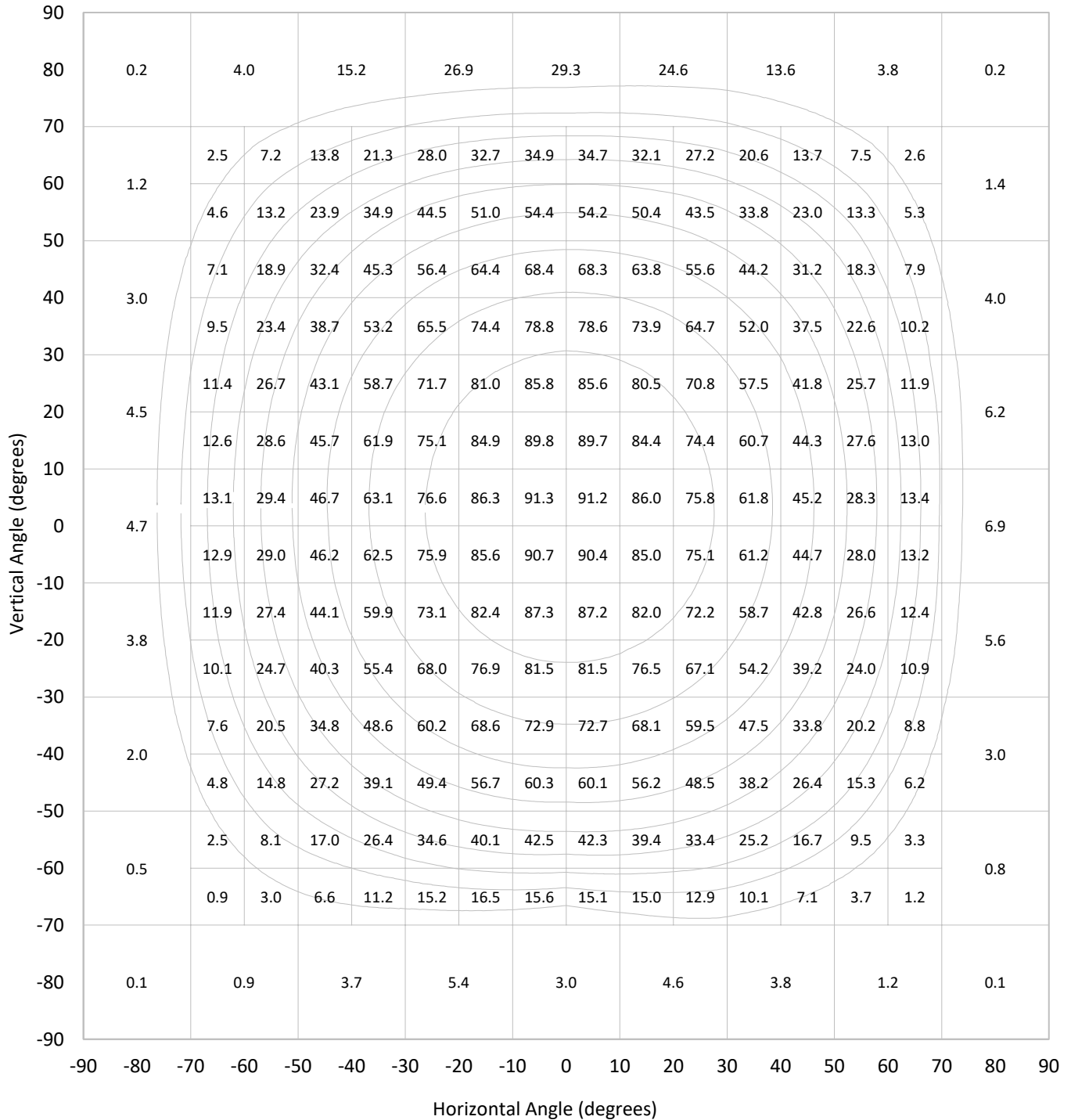
### Iso-Candela Plot





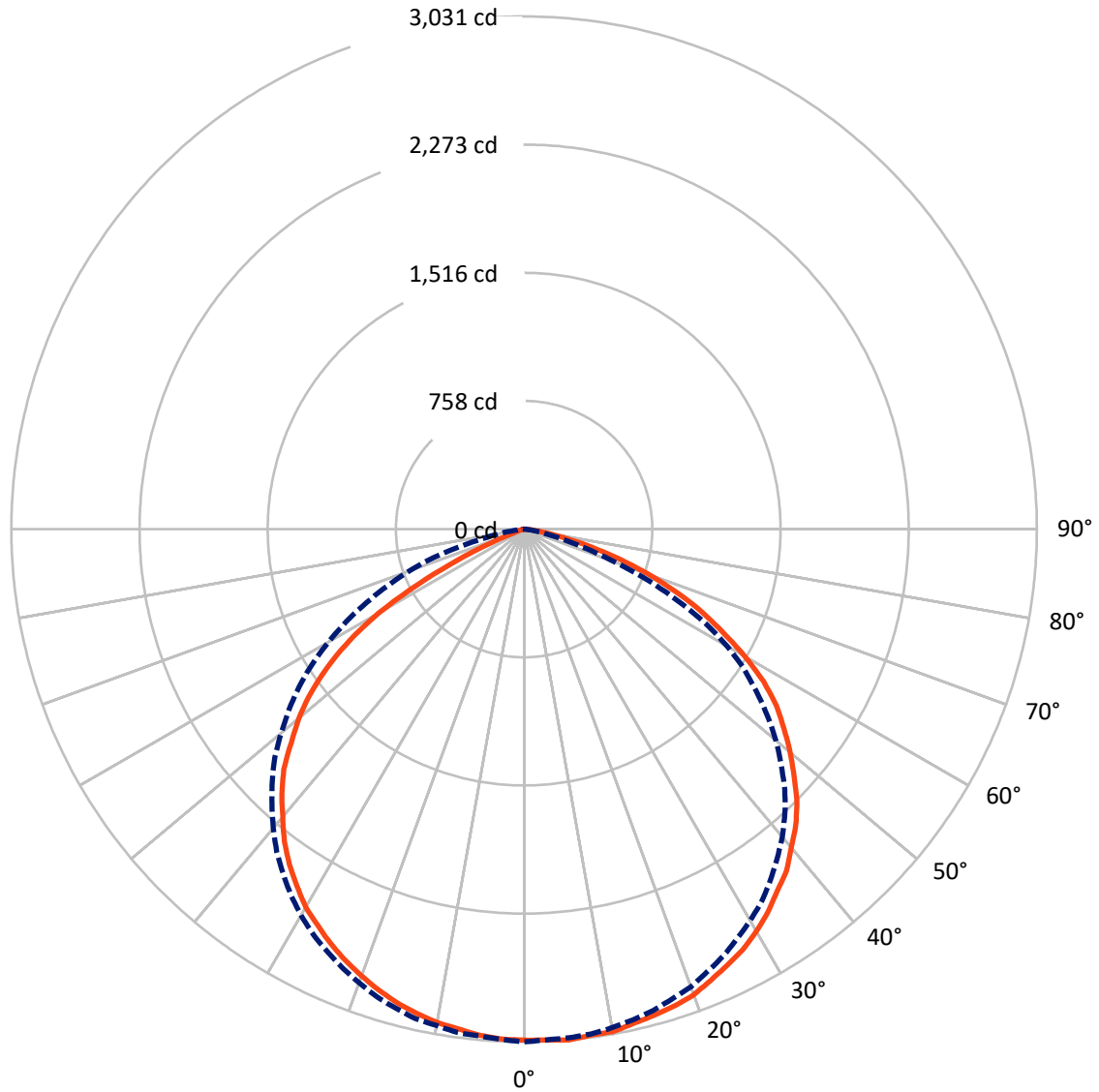
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### Lumen Table



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### Luminous Intensity Polar Plot

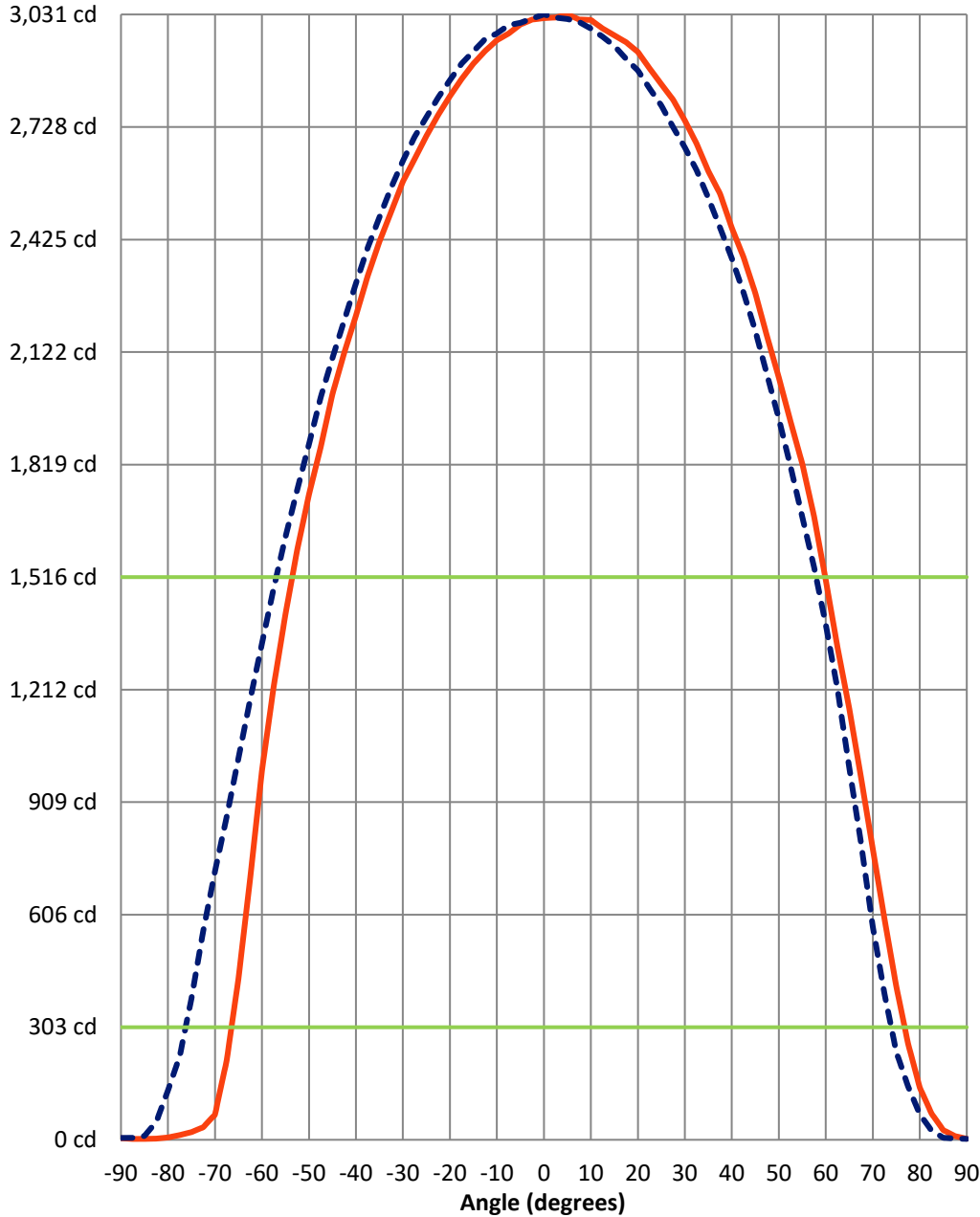


— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 5-Deg



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 114.9°  
 V Angle: 113.4°  
 Lumens: 6742.1  
 Efficiency: 80.1%

**Field:**  
 H Angle: 150.2°  
 V Angle: 143.3°  
 Lumens: 8289.6  
 Efficiency: 98.5%

**Spill:**  
 Lumens: 125.9  
 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°	5.0	4.9	4.9	4.8	4.7	4.6	4.6	4.5	4.4	4.3	4.3
87.5°	5.0	5.1	5.2	5.3	5.5	5.7	6.0	6.3	6.6	7.0	7.4
85°	5.0	5.1	5.3	5.5	5.8	6.2	6.8	7.4	8.1	8.8	9.8
82.5°	5.0	5.1	5.3	5.7	6.2	6.9	7.6	8.8	10.2	11.7	14.1
80°	5.0	5.1	5.4	5.9	6.6	7.6	9.0	10.6	13.8	17.4	23.1
77.5°	5.0	5.1	5.5	6.1	7.1	8.5	10.8	14.5	20.3	29.0	38.6
75°	5.0	5.2	5.6	6.4	7.7	9.9	13.7	21.2	30.8	41.5	56.3
72.5°	5.0	5.2	5.7	6.7	8.3	12.0	19.2	29.4	40.9	60.5	84.6
70°	5.0	5.2	5.8	7.0	9.7	15.2	25.4	37.5	58.9	87.0	116.4
67.5°	5.0	5.2	5.9	7.3	11.0	19.7	31.7	52.0	82.1	114.3	147.7
65°	5.0	5.2	6.1	7.9	13.2	24.2	40.8	70.2	105.9	142.2	186.7
62.5°	5.0	5.3	6.2	8.7	16.1	28.8	52.9	91.7	128.0	176.5	233.1
60°	5.0	5.3	6.3	9.5	18.9	35.4	69.3	109.3	157.5	214.8	283.8
57.5°	5.0	5.3	6.4	10.2	22.0	44.4	86.8	130.3	189.0	256.3	339.1
55°	5.0	5.3	6.5	11.9	25.0	54.6	100.5	155.6	221.4	300.9	399.1
52.5°	5.0	5.4	6.7	13.4	28.5	68.1	114.7	181.0	254.3	349.4	452.3
50°	5.0	5.4	7.0	14.9	34.5	81.1	135.5	205.9	290.2	398.5	506.3
47.5°	5.0	5.4	7.3	16.3	40.3	91.0	155.6	231.2	328.6	444.2	560.3
45°	5.0	5.4	7.6	18.0	46.4	100.3	174.2	256.7	368.9	488.7	612.0
42.5°	5.0	5.4	7.9	19.5	55.5	112.4	191.7	282.4	406.9	533.7	659.0
40°	5.0	5.4	8.1	20.9	64.1	127.4	209.3	311.1	442.9	578.7	699.8
37.5°	5.0	5.5	8.3	22.2	72.1	141.7	225.6	340.6	476.3	618.2	742.8
35°	5.0	5.5	8.7	24.7	78.4	154.2	242.0	368.9	510.3	653.4	782.6
32.5°	5.0	5.5	9.2	27.5	83.7	165.2	257.9	395.8	545.2	683.9	817.8
30°	5.0	5.5	9.6	30.0	88.4	175.2	272.2	420.5	576.1	714.9	848.6
27.5°	5.0	5.5	9.9	32.3	92.7	184.3	289.8	441.8	603.0	744.6	876.5
25°	5.0	5.5	10.2	34.2	97.8	192.8	306.5	461.1	627.2	769.9	906.7
22.5°	5.0	5.5	10.5	36.0	105.0	200.1	321.3	480.3	646.1	791.9	934.1
20°	5.0	5.5	10.6	38.1	111.5	206.4	334.7	500.0	662.8	811.1	957.3
17.5°	5.0	5.4	10.7	40.9	117.1	211.7	347.3	517.6	677.7	826.3	977.3
15°	5.0	5.4	10.8	43.2	122.0	216.3	357.9	532.7	691.9	839.0	993.9
12.5°	5.0	5.4	10.8	45.1	126.1	220.2	366.7	544.6	703.5	849.1	1007.0
10°	5.0	5.4	10.8	46.5	129.3	223.0	373.4	552.8	712.5	858.6	1017.0
7.5°	5.0	5.4	10.7	47.5	131.6	224.7	378.2	558.7	719.0	865.9	1024.1
5°	5.0	5.3	10.6	48.0	133.1	225.3	380.9	562.3	722.9	870.2	1028.0
2.5°	5.0	5.3	10.4	48.1	133.7	224.8	381.5	563.5	724.1	871.5	1028.8
0°	5.0	5.3	10.2	47.8	133.4	223.4	380.0	562.2	722.7	869.8	1026.6
-2.5°	5.0	5.3	10.2	47.2	131.9	221.3	376.4	557.7	717.6	864.6	1021.3
-5°	5.0	5.3	10.1	46.3	129.6	218.3	370.6	550.7	709.9	856.4	1012.9
-7.5°	5.0	5.3	10.1	44.9	126.3	214.3	362.8	541.3	699.6	845.2	1001.4
-10°	5.0	5.3	9.9	43.1	122.3	209.4	352.9	529.5	686.6	831.1	986.8
-12.5°	5.0	5.3	9.8	40.9	117.4	203.6	341.0	515.3	671.1	814.7	969.2
-15°	5.0	5.3	9.6	38.4	111.8	196.9	327.1	497.5	653.1	797.6	948.5
-17.5°	5.0	5.3	9.4	35.4	105.4	189.8	311.4	476.3	632.5	778.0	924.5
-20°	5.0	5.3	9.2	32.1	98.3	182.4	293.7	452.7	611.6	755.8	897.4

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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°	5.0	5.3	8.9	29.6	90.5	174.4	276.3	426.8	588.9	729.4	867.2
-25°	5.0	5.3	8.6	27.6	82.1	165.7	258.4	402.0	564.3	699.9	832.5
-27.5°	5.0	5.3	8.3	25.4	76.1	156.3	239.3	377.7	533.4	667.2	795.1
-30°	5.0	5.3	8.0	23.0	71.0	146.2	219.8	351.7	499.3	630.6	759.5
-32.5°	5.0	5.2	7.6	20.5	65.6	135.3	204.7	321.5	461.2	593.2	720.8
-35°	5.0	5.2	7.2	17.9	59.9	123.8	188.8	288.9	419.1	557.1	676.9
-37.5°	5.0	5.2	6.8	15.6	53.5	110.9	173.1	257.4	379.1	514.9	629.1
-40°	5.0	5.2	6.6	14.4	45.9	96.0	158.5	228.4	341.6	466.8	579.1
-42.5°	5.0	5.2	6.5	13.2	38.0	80.6	143.3	201.7	300.0	413.3	533.2
-45°	5.0	5.2	6.3	11.9	29.9	68.7	126.8	179.6	255.7	361.9	477.1
-47.5°	5.0	5.2	6.1	10.6	25.1	60.0	109.8	158.9	219.7	313.9	415.3
-50°	5.0	5.1	5.8	9.7	20.8	51.2	90.5	139.7	187.4	261.1	353.4
-52.5°	5.0	5.1	5.6	8.8	16.4	40.7	70.5	119.0	160.1	215.6	296.2
-55°	5.0	5.1	5.5	8.0	14.0	30.1	58.4	97.3	137.3	177.7	235.2
-57.5°	5.0	5.1	5.5	7.1	12.1	23.1	47.2	74.2	113.2	146.9	188.1
-60°	5.0	5.0	5.4	6.7	10.2	17.7	34.9	56.4	87.7	121.1	150.8
-62.5°	5.0	5.0	5.4	6.3	9.1	13.9	24.0	43.3	62.0	92.3	120.8
-65°	5.0	5.0	5.3	5.9	7.9	11.5	17.8	29.9	46.0	64.5	89.5
-67.5°	5.0	5.0	5.2	5.6	6.9	9.6	13.4	20.3	31.7	44.4	59.7
-70°	5.0	5.0	5.2	5.5	6.4	8.1	10.7	14.2	20.3	29.3	38.8
-72.5°	5.0	5.0	5.1	5.4	5.8	7.0	8.8	11.2	13.9	18.5	24.1
-75°	5.0	5.0	5.1	5.3	5.6	6.2	7.3	8.9	10.7	12.8	15.5
-77.5°	5.0	5.0	5.0	5.2	5.4	5.7	6.3	7.2	8.4	9.8	11.2
-80°	5.0	5.0	5.0	5.1	5.2	5.4	5.7	6.1	6.8	7.6	8.6
-82.5°	5.0	4.9	4.9	4.9	5.1	5.2	5.4	5.6	5.9	6.2	6.7
-85°	5.0	4.9	4.9	4.9	4.9	5.0	5.0	5.2	5.3	5.4	5.6
-87.5°	5.0	4.9	4.9	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.9
-90°	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4	5.4	5.5	5.5





REPORT NUMBER: P670555 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL80DBZ-80W-2700K

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	4.2	4.1	4.4	4.6	4.9	5.1	5.4	5.6	5.9	6.1	6.4
87.5°	7.8	8.3	8.5	8.7	8.8	8.9	9.1	9.2	9.3	9.4	9.4
85°	11.0	12.4	13.0	13.6	14.3	15.5	16.6	17.6	18.5	19.3	20.0
82.5°	17.2	20.6	22.9	27.3	31.4	35.1	38.6	42.1	45.6	48.9	52.2
80°	31.1	39.9	45.8	51.3	57.5	66.4	74.9	83.0	91.8	99.9	107.4
77.5°	48.6	61.9	75.7	88.4	102.1	115.0	126.8	138.0	148.9	159.4	169.2
75°	75.7	98.4	118.0	134.2	149.8	165.9	182.0	202.4	221.1	240.2	257.0
72.5°	111.6	137.0	160.3	180.8	208.6	236.4	264.9	292.5	319.0	345.6	371.7
70°	145.3	177.3	214.8	251.7	289.1	328.2	366.4	404.0	439.3	474.6	508.9
67.5°	186.5	234.0	287.9	337.4	386.6	432.8	475.2	520.4	565.1	610.5	652.0
65°	240.0	302.4	374.0	432.6	480.8	534.7	587.2	638.8	688.5	736.7	786.2
62.5°	300.1	378.1	456.0	516.6	577.5	635.6	692.9	748.7	807.9	861.3	912.2
60°	366.2	450.7	531.1	603.2	667.3	729.7	795.9	858.7	918.3	978.1	1037.1
57.5°	432.0	519.5	605.6	683.7	751.8	825.7	893.8	961.4	1030.1	1096.6	1162.4
55°	492.9	588.1	676.8	759.1	839.2	913.9	989.8	1066.7	1139.9	1216.2	1291.8
52.5°	555.2	653.3	742.5	835.8	919.5	1002.5	1086.7	1168.4	1251.8	1338.1	1415.2
50°	615.2	712.8	812.6	905.9	999.8	1090.9	1180.0	1269.6	1362.6	1443.7	1518.5
47.5°	670.7	774.3	875.3	975.9	1079.4	1175.2	1271.1	1369.0	1457.6	1537.5	1612.2
45°	720.5	831.5	936.2	1047.1	1151.9	1255.4	1360.2	1456.5	1542.7	1623.9	1706.3
42.5°	774.0	883.8	998.3	1110.0	1222.7	1336.7	1439.9	1533.5	1622.5	1711.4	1791.9
40°	821.0	936.1	1057.0	1175.7	1294.3	1405.7	1508.8	1607.5	1703.5	1791.8	1875.0
37.5°	863.8	988.1	1110.9	1233.3	1355.6	1468.8	1577.9	1681.6	1776.9	1868.0	1949.1
35°	904.8	1036.5	1165.5	1294.6	1415.1	1530.0	1640.1	1747.1	1847.0	1934.9	2015.2
32.5°	947.1	1079.1	1211.5	1343.4	1465.6	1583.6	1698.1	1807.6	1908.6	1992.7	2076.4
30°	985.9	1123.3	1260.2	1390.9	1516.4	1635.4	1751.0	1861.6	1956.5	2049.5	2134.8
27.5°	1020.8	1161.9	1301.3	1432.5	1559.5	1681.6	1798.3	1905.8	2006.3	2098.5	2188.4
25°	1051.1	1194.3	1336.8	1471.0	1598.9	1723.0	1840.1	1943.2	2045.8	2143.5	2229.8
22.5°	1080.3	1227.6	1369.4	1506.6	1634.4	1758.8	1874.4	1983.7	2085.8	2181.6	2269.6
20°	1108.1	1257.3	1397.6	1535.2	1665.9	1789.2	1903.0	2014.9	2119.0	2211.4	2301.1
17.5°	1131.1	1279.7	1422.3	1560.0	1692.0	1815.4	1928.6	2042.7	2145.4	2240.9	2333.2
15°	1147.9	1298.5	1443.4	1580.4	1713.5	1835.7	1954.7	2067.6	2166.2	2259.5	2356.2
12.5°	1161.5	1313.8	1460.4	1596.6	1729.0	1851.2	1973.5	2085.0	2183.1	2278.6	2374.3
10°	1172.1	1325.2	1473.3	1609.8	1740.2	1862.6	1985.9	2097.2	2197.0	2297.3	2388.3
7.5°	1180.9	1332.8	1481.5	1618.8	1747.3	1870.0	1994.5	2103.6	2206.1	2304.6	2397.7
5°	1185.8	1336.6	1485.8	1623.5	1750.5	1873.3	1999.6	2105.5	2206.7	2306.7	2402.5
2.5°	1187.0	1336.8	1486.2	1624.0	1749.5	1872.3	1999.9	2103.0	2202.9	2303.9	2402.5
0°	1184.4	1333.3	1482.7	1620.0	1744.1	1867.0	1995.4	2096.5	2195.5	2296.7	2397.0
-2.5°	1178.5	1327.9	1476.5	1614.2	1738.6	1861.5	1988.5	2091.1	2191.0	2291.2	2390.2
-5°	1169.0	1318.9	1466.5	1603.9	1728.8	1851.4	1976.6	2081.5	2183.0	2281.4	2378.0
-7.5°	1155.7	1306.1	1452.4	1589.2	1714.7	1836.9	1959.8	2067.4	2170.5	2267.2	2360.6
-10°	1138.7	1289.5	1434.2	1569.9	1696.7	1818.0	1939.2	2048.7	2148.2	2248.3	2337.0
-12.5°	1119.8	1269.1	1412.2	1546.2	1674.6	1794.8	1914.6	2024.7	2120.2	2217.0	2308.2
-15°	1098.0	1244.7	1386.4	1520.1	1648.0	1767.2	1884.3	1996.4	2091.0	2185.4	2276.2
-17.5°	1073.0	1216.4	1356.5	1490.2	1618.0	1735.0	1848.7	1958.6	2057.5	2154.0	2243.2
-20°	1042.3	1184.6	1322.4	1454.5	1583.6	1697.9	1810.1	1917.2	2017.7	2106.4	2198.3



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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°	1007.3	1146.7	1284.5	1413.8	1539.6	1655.8	1767.4	1873.2	1974.4	2064.5	2153.7
-25°	970.4	1105.5	1242.1	1370.6	1493.5	1610.9	1719.8	1823.7	1919.1	2011.1	2092.9
-27.5°	931.7	1064.6	1196.0	1323.4	1443.1	1562.2	1666.8	1769.8	1865.0	1956.1	2040.7
-30°	889.4	1018.4	1145.3	1271.5	1387.0	1501.9	1608.6	1710.7	1805.8	1891.2	1977.9
-32.5°	843.7	967.5	1089.2	1213.0	1329.9	1439.9	1550.2	1644.9	1739.8	1827.0	1906.8
-35°	793.7	915.7	1034.4	1152.1	1268.5	1371.7	1477.5	1577.9	1667.5	1753.7	1834.6
-37.5°	744.4	860.1	973.5	1083.9	1197.0	1304.2	1401.3	1500.5	1588.1	1673.1	1753.3
-40°	692.7	800.6	910.7	1017.4	1123.5	1229.0	1323.6	1416.0	1507.7	1585.8	1663.9
-42.5°	635.7	739.7	844.4	946.3	1044.8	1145.9	1242.3	1326.1	1414.4	1498.1	1570.1
-45°	574.3	677.4	774.4	872.8	966.7	1055.8	1146.1	1235.4	1313.6	1395.8	1472.1
-47.5°	519.6	609.3	703.7	795.0	885.4	963.9	1044.2	1129.2	1210.8	1283.9	1359.6
-50°	453.6	540.4	628.6	715.1	796.8	867.3	938.9	1014.7	1095.0	1167.9	1236.3
-52.5°	382.0	474.2	548.7	632.0	702.7	764.7	829.8	896.0	965.8	1040.6	1106.8
-55°	314.6	395.2	478.2	543.8	606.0	662.1	716.1	774.0	833.1	895.3	960.3
-57.5°	247.5	318.2	391.3	462.9	506.8	557.9	605.4	651.1	698.1	749.6	801.7
-60°	190.5	244.5	307.2	367.1	420.2	457.2	495.3	533.3	570.0	605.8	643.9
-62.5°	147.2	181.7	226.6	277.9	323.0	364.6	398.6	420.3	448.4	474.7	500.5
-65°	113.8	135.3	162.9	193.9	235.1	269.4	300.2	326.8	346.7	357.2	372.3
-67.5°	79.4	100.7	117.0	137.6	159.8	184.3	211.3	232.3	249.8	263.6	273.4
-70°	49.2	63.6	80.5	96.0	107.9	122.7	137.2	150.4	166.8	178.2	184.6
-72.5°	29.8	37.2	46.4	56.7	69.4	79.9	87.7	95.5	102.6	109.3	114.3
-75°	18.1	21.5	24.8	31.2	36.6	42.9	48.0	54.8	59.6	63.0	65.3
-77.5°	12.6	14.0	15.5	17.3	19.7	21.6	24.8	26.9	28.7	29.9	29.8
-80°	9.6	10.5	11.2	11.8	12.5	13.3	14.0	14.6	15.4	15.9	16.0
-82.5°	7.3	7.9	8.4	8.9	9.3	9.6	9.8	10.1	10.3	10.4	10.5
-85°	5.9	6.1	6.4	6.7	7.0	7.3	7.5	7.7	7.9	8.0	8.0
-87.5°	4.9	5.0	5.3	5.6	5.8	6.1	6.3	6.6	6.8	7.0	7.2
-90°	5.6	5.6	5.6	5.5	5.5	5.4	5.4	5.3	5.3	5.2	5.2



REPORT NUMBER: P670555 (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°
90°	6.6	6.9	7.1	6.7	6.4	6.0	5.6	5.3	4.9	4.5	4.2
87.5°	9.5	9.7	9.7	9.8	9.9	10.0	10.1	10.1	10.1	10.2	10.2
85°	21.3	22.8	24.0	25.0	25.8	26.5	27.1	27.4	27.7	27.7	27.7
82.5°	56.4	60.6	64.4	67.1	69.2	70.9	72.3	73.6	74.5	74.9	74.9
80°	114.2	120.6	126.4	130.8	134.4	137.6	140.3	142.4	144.0	144.9	145.4
77.5°	180.3	191.4	201.0	209.7	218.3	226.1	233.3	239.7	245.5	250.8	254.9
75°	273.0	287.4	299.5	316.3	333.5	348.8	363.3	377.4	389.2	398.7	406.0
72.5°	397.4	423.6	448.4	471.4	493.3	514.4	535.0	552.5	567.0	578.3	586.5
70°	543.7	580.0	613.4	642.6	668.9	692.9	714.4	733.4	749.3	762.4	772.5
67.5°	692.2	731.1	769.3	805.2	834.1	859.8	883.3	903.9	922.2	937.8	951.6
65°	832.9	875.2	914.9	952.3	987.2	1019.8	1047.6	1072.5	1094.9	1115.0	1131.5
62.5°	961.9	1011.8	1057.5	1101.0	1142.2	1179.5	1212.5	1241.5	1267.0	1287.9	1304.3
60°	1093.4	1149.3	1205.0	1259.6	1308.6	1350.1	1386.1	1415.0	1440.4	1460.8	1477.4
57.5°	1229.1	1295.3	1361.2	1419.9	1468.0	1502.4	1536.0	1567.4	1593.7	1616.4	1636.6
55°	1369.1	1435.0	1492.4	1547.0	1594.8	1630.1	1664.5	1697.8	1729.8	1756.9	1776.3
52.5°	1484.2	1548.7	1604.7	1655.0	1706.6	1751.2	1785.0	1819.4	1849.2	1873.6	1894.0
50°	1587.0	1648.0	1712.6	1764.2	1816.2	1862.2	1900.2	1933.6	1964.2	1991.0	2012.1
47.5°	1684.6	1749.8	1813.1	1870.6	1921.8	1970.1	2010.4	2044.9	2075.2	2101.5	2123.7
45°	1777.2	1847.6	1910.3	1969.6	2022.1	2072.5	2115.5	2150.9	2180.5	2207.1	2230.1
42.5°	1868.2	1937.3	2000.0	2060.9	2118.4	2167.3	2209.3	2245.4	2278.2	2306.8	2330.5
40°	1950.1	2017.9	2085.6	2146.2	2201.3	2251.0	2297.2	2338.2	2370.1	2396.2	2416.5
37.5°	2023.5	2095.7	2162.1	2223.3	2278.9	2334.6	2380.2	2416.8	2445.3	2475.8	2499.8
35°	2092.5	2165.8	2233.1	2295.9	2353.8	2404.9	2449.2	2489.9	2522.0	2550.6	2573.1
32.5°	2156.8	2230.1	2299.3	2361.7	2417.8	2470.0	2515.1	2556.7	2589.6	2615.4	2637.8
30°	2215.5	2289.2	2357.9	2420.8	2477.2	2529.2	2574.9	2614.4	2647.3	2670.1	2694.3
27.5°	2266.2	2341.8	2412.0	2473.9	2530.9	2580.7	2623.7	2660.4	2699.2	2726.4	2748.1
25°	2313.3	2391.3	2459.1	2521.6	2574.6	2623.7	2668.2	2709.9	2742.4	2778.6	2800.2
22.5°	2355.2	2432.3	2500.7	2558.7	2613.1	2665.2	2709.9	2752.5	2786.3	2823.5	2841.5
20°	2389.8	2467.4	2534.7	2591.7	2651.2	2700.7	2747.8	2786.1	2822.9	2856.6	2875.4
17.5°	2417.9	2495.7	2559.0	2626.6	2682.2	2730.6	2772.9	2814.8	2855.8	2881.6	2910.8
15°	2442.5	2516.3	2583.3	2650.0	2703.0	2750.9	2797.7	2842.3	2877.1	2908.0	2933.2
12.5°	2462.1	2532.9	2607.4	2670.6	2724.3	2769.6	2818.5	2861.1	2899.6	2930.7	2955.6
10°	2472.2	2545.6	2622.3	2683.3	2734.0	2789.5	2836.1	2879.6	2915.2	2946.8	2971.3
7.5°	2479.5	2557.6	2631.4	2695.3	2744.6	2802.2	2847.0	2892.8	2931.1	2953.9	2980.5
5°	2484.8	2564.8	2636.7	2701.7	2754.6	2807.3	2854.2	2898.8	2932.1	2964.7	2980.1
2.5°	2485.5	2566.1	2637.0	2698.9	2759.6	2807.5	2855.5	2899.7	2932.8	2961.8	2986.5
0°	2480.8	2561.7	2632.2	2693.3	2758.3	2803.0	2851.0	2894.0	2930.8	2958.5	2987.4
-2.5°	2472.9	2552.9	2622.2	2686.9	2748.8	2795.5	2840.8	2883.6	2918.0	2945.8	2971.0
-5°	2458.9	2538.7	2608.5	2676.4	2732.6	2784.1	2827.6	2868.0	2898.2	2931.8	2951.1
-7.5°	2439.2	2519.9	2592.6	2657.5	2710.8	2765.6	2809.6	2849.6	2877.1	2907.8	2935.7
-10°	2417.7	2498.4	2569.0	2632.1	2688.7	2742.0	2783.5	2816.7	2851.4	2880.6	2911.6
-12.5°	2397.0	2470.7	2537.4	2592.3	2659.7	2711.8	2755.8	2797.3	2828.4	2854.6	2877.8
-15°	2365.7	2434.3	2504.3	2571.0	2625.2	2680.1	2725.2	2766.2	2800.1	2825.2	2843.2
-17.5°	2324.4	2397.8	2471.0	2524.2	2576.9	2638.1	2686.1	2725.6	2763.3	2791.4	2814.1
-20°	2279.2	2360.6	2420.9	2488.5	2543.3	2589.3	2639.9	2682.0	2715.6	2746.1	2774.0



REPORT NUMBER: P670555 (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°	2234.6	2307.2	2377.9	2437.4	2495.8	2548.2	2588.9	2632.0	2665.5	2693.7	2717.9
-25°	2181.0	2254.6	2327.3	2384.8	2440.3	2494.2	2538.4	2575.0	2618.2	2637.3	2662.1
-27.5°	2120.2	2198.3	2263.7	2330.9	2381.2	2428.6	2477.9	2517.3	2552.8	2579.4	2609.0
-30°	2056.2	2132.1	2202.3	2260.4	2319.6	2364.3	2407.6	2444.0	2486.2	2513.3	2537.1
-32.5°	1987.3	2057.6	2127.6	2191.6	2244.5	2295.3	2337.0	2373.3	2405.8	2433.0	2458.0
-35°	1909.6	1983.4	2046.7	2107.0	2165.8	2219.0	2257.6	2297.2	2328.2	2353.4	2377.6
-37.5°	1828.4	1897.4	1964.7	2022.8	2071.7	2125.5	2172.1	2212.8	2238.6	2267.2	2289.8
-40°	1737.5	1806.6	1871.4	1929.9	1987.5	2028.2	2068.3	2110.0	2144.1	2172.5	2194.7
-42.5°	1639.3	1705.9	1768.4	1829.5	1881.3	1927.8	1974.6	2007.1	2036.9	2063.2	2085.9
-45°	1540.3	1599.5	1658.0	1714.4	1765.4	1816.8	1857.9	1892.2	1921.9	1949.8	1971.5
-47.5°	1429.8	1493.6	1546.2	1594.9	1642.2	1687.7	1730.2	1767.4	1799.3	1823.6	1842.4
-50°	1304.6	1370.1	1427.4	1478.3	1520.8	1559.4	1596.5	1632.1	1663.0	1688.7	1708.8
-52.5°	1170.0	1227.3	1287.9	1342.1	1388.6	1428.3	1463.5	1493.9	1521.3	1543.3	1561.6
-55°	1027.7	1081.3	1132.5	1179.7	1226.8	1273.2	1308.4	1338.8	1363.4	1383.9	1399.6
-57.5°	856.5	912.7	969.3	1016.1	1054.2	1089.4	1122.7	1152.8	1179.3	1200.7	1216.7
-60°	686.3	727.9	771.7	815.5	856.4	892.1	923.1	944.5	963.6	980.0	993.0
-62.5°	525.8	549.2	579.1	608.8	637.5	664.0	687.7	707.3	722.8	733.4	738.8
-65°	386.1	398.5	412.3	424.8	440.0	452.3	467.1	477.5	483.6	486.8	485.6
-67.5°	277.1	276.0	277.1	278.8	285.0	289.0	290.5	291.7	289.2	283.2	275.5
-70°	188.2	189.3	186.7	184.1	183.7	180.9	175.3	167.6	160.3	150.1	137.4
-72.5°	118.5	120.2	118.3	116.4	115.4	113.5	110.7	105.7	98.9	90.6	81.3
-75°	67.1	67.7	66.6	67.4	68.2	67.6	65.9	63.2	59.4	54.6	49.0
-77.5°	30.3	30.4	29.3	30.2	31.8	32.6	32.5	31.7	30.3	28.4	25.9
-80°	16.1	15.7	14.7	14.1	13.7	13.3	12.8	12.2	11.5	10.8	10.0
-82.5°	10.5	10.6	10.5	10.1	9.6	9.1	8.5	8.0	7.4	6.7	6.1
-85°	8.1	8.1	8.1	7.7	7.3	6.8	6.4	5.9	5.4	4.9	4.4
-87.5°	7.4	7.6	7.8	7.4	6.9	6.4	6.0	5.5	5.1	4.6	4.2
-90°	5.1	5.1	5.0	4.9	4.9	4.8	4.7	4.7	4.6	4.5	4.5



REPORT NUMBER: P670555 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL80DBZ-80W-2700K

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	3.8	3.4	3.1	2.7	3.0	3.3	3.5	3.8	4.1	4.4	4.6
87.5°	10.1	10.1	10.1	10.0	10.3	10.5	10.7	10.9	11.1	11.3	11.4
85°	27.5	27.2	26.7	26.2	27.4	28.5	29.4	30.3	30.9	31.4	31.8
82.5°	74.5	73.6	72.4	70.8	73.6	76.0	78.0	79.6	80.8	81.5	81.7
80°	145.2	144.4	143.0	141.0	146.0	150.3	154.0	156.9	159.1	160.5	161.1
77.5°	257.9	259.7	260.3	259.6	266.3	271.7	275.8	278.5	279.9	280.1	278.9
75°	411.0	413.9	414.7	413.5	419.9	424.2	426.6	427.0	425.4	421.9	416.4
72.5°	592.3	595.5	596.2	594.2	598.9	601.0	600.6	597.7	592.6	585.3	575.9
70°	779.7	784.0	785.3	783.8	787.7	788.6	786.7	781.8	774.0	763.3	749.8
67.5°	962.6	970.3	974.6	975.5	977.8	976.8	972.4	965.1	954.9	941.5	925.0
65°	1144.4	1153.6	1159.2	1161.0	1162.8	1160.8	1155.2	1145.9	1133.1	1116.7	1096.8
62.5°	1316.0	1323.4	1326.7	1326.0	1330.2	1330.7	1327.2	1319.9	1307.8	1291.3	1270.5
60°	1490.7	1500.4	1506.0	1507.3	1509.8	1507.8	1501.5	1491.2	1477.1	1459.2	1437.3
57.5°	1653.0	1665.6	1674.4	1679.2	1678.3	1673.2	1664.2	1651.2	1633.3	1612.1	1588.5
55°	1792.6	1805.5	1814.9	1820.6	1818.5	1812.6	1802.9	1789.6	1772.6	1750.5	1725.0
52.5°	1910.2	1922.3	1930.4	1934.6	1933.3	1928.0	1918.3	1904.8	1888.1	1868.0	1843.2
50°	2028.6	2041.0	2049.3	2053.3	2053.2	2048.5	2039.1	2024.6	2005.4	1983.1	1956.1
47.5°	2140.9	2152.8	2160.5	2163.9	2163.3	2158.3	2149.0	2135.2	2117.4	2096.5	2072.5
45°	2249.2	2264.3	2274.8	2280.4	2277.1	2269.1	2257.0	2241.2	2221.7	2198.9	2170.9
42.5°	2349.0	2362.8	2372.2	2377.1	2374.1	2366.5	2354.5	2339.3	2320.2	2293.2	2263.1
40°	2432.3	2444.3	2452.3	2456.3	2455.2	2449.9	2440.6	2427.1	2408.0	2382.4	2351.4
37.5°	2518.7	2533.1	2542.7	2548.0	2546.5	2541.6	2532.0	2513.5	2489.3	2462.9	2436.0
35°	2589.8	2600.5	2606.7	2609.2	2609.9	2607.2	2600.5	2586.9	2564.6	2546.9	2514.2
32.5°	2655.1	2668.2	2677.6	2683.2	2680.5	2673.7	2663.5	2650.3	2631.8	2610.7	2579.7
30°	2714.7	2729.1	2739.5	2745.5	2742.1	2734.9	2724.8	2708.5	2686.7	2664.3	2637.2
27.5°	2769.7	2784.9	2795.3	2801.5	2797.8	2789.5	2778.3	2762.3	2739.5	2720.8	2682.1
25°	2821.9	2832.6	2839.6	2843.3	2842.0	2836.5	2826.0	2810.6	2790.8	2763.3	2728.3
22.5°	2860.3	2876.1	2881.7	2885.8	2884.5	2879.5	2868.7	2853.4	2832.9	2802.3	2769.2
20°	2895.1	2911.8	2923.3	2930.2	2926.3	2915.0	2900.1	2891.0	2869.8	2839.8	2805.6
17.5°	2923.6	2940.8	2951.2	2956.4	2952.4	2945.4	2937.1	2924.1	2895.2	2873.1	2835.7
15°	2954.5	2966.8	2972.4	2974.9	2974.9	2970.4	2956.1	2940.3	2921.9	2896.7	2866.0
12.5°	2975.4	2987.9	2993.6	2993.4	2993.1	2987.6	2982.0	2963.1	2937.6	2911.4	2889.2
10°	2990.9	3006.2	3014.6	3016.3	3017.4	3009.6	2992.1	2976.8	2957.4	2926.1	2898.4
7.5°	2997.7	3014.0	3016.0	3017.8	3018.4	3018.2	3008.0	2981.7	2962.4	2940.7	2902.7
5°	3002.4	3008.8	3020.4	3031.2	3022.7	3018.9	3010.8	2993.1	2971.2	2946.5	2911.5
2.5°	3003.0	3014.1	3022.4	3023.1	3019.5	3017.7	3008.8	2995.7	2973.3	2947.8	2913.9
0°	3001.1	3006.2	3011.3	3021.3	3020.2	3015.9	3006.6	2987.4	2973.1	2947.4	2911.2
-2.5°	2992.9	3005.4	3012.9	3017.4	3016.5	3017.6	3005.9	2984.5	2965.7	2935.5	2901.5
-5°	2978.9	2989.6	2996.5	3004.1	3005.1	3005.4	2988.8	2974.2	2951.4	2916.7	2887.7
-7.5°	2957.8	2973.4	2978.7	2980.0	2985.9	2982.3	2972.6	2958.4	2927.8	2896.8	2866.4
-10°	2935.8	2955.6	2961.1	2961.7	2963.7	2959.7	2948.8	2926.2	2898.8	2875.3	2843.9
-12.5°	2902.5	2919.6	2930.6	2932.8	2934.4	2926.7	2911.0	2894.7	2870.4	2843.9	2810.6
-15°	2867.2	2881.1	2894.0	2898.7	2897.1	2890.2	2876.5	2852.4	2835.3	2807.4	2782.1
-17.5°	2827.2	2840.8	2852.4	2857.4	2854.3	2844.4	2833.2	2815.1	2795.1	2773.0	2742.9
-20°	2788.6	2801.0	2809.1	2811.1	2809.3	2801.9	2789.3	2772.1	2755.9	2728.9	2698.3



REPORT NUMBER: P670555 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL80DBZ-80W-2700K

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	2739.1	2753.3	2759.8	2760.5	2759.8	2754.3	2746.3	2728.2	2699.7	2678.1	2648.1
-25°	2682.0	2694.4	2701.7	2703.9	2703.4	2696.9	2684.3	2669.5	2646.7	2625.2	2597.7
-27.5°	2622.5	2632.4	2639.9	2642.2	2641.8	2636.0	2626.6	2613.3	2592.7	2566.9	2534.1
-30°	2556.8	2569.7	2578.0	2581.1	2580.6	2574.6	2563.8	2546.4	2524.4	2498.6	2466.3
-32.5°	2479.6	2492.5	2498.6	2499.8	2500.5	2496.1	2485.8	2469.3	2449.6	2423.3	2391.2
-35°	2394.9	2407.7	2416.1	2419.2	2419.5	2413.8	2402.5	2386.9	2367.6	2344.2	2314.0
-37.5°	2307.5	2319.0	2325.2	2326.6	2327.9	2324.1	2314.9	2299.3	2279.4	2256.6	2219.6
-40°	2207.5	2216.1	2220.3	2219.9	2223.1	2220.8	2212.2	2197.0	2179.2	2155.8	2125.5
-42.5°	2102.9	2113.7	2119.1	2119.3	2121.1	2117.8	2109.3	2095.9	2078.0	2052.7	2022.7
-45°	1987.4	1999.5	2006.7	2008.2	2009.1	2004.0	1993.8	1979.3	1961.6	1940.5	1914.5
-47.5°	1856.4	1864.4	1867.5	1865.7	1870.7	1870.7	1865.7	1854.9	1839.1	1818.6	1792.3
-50°	1723.6	1733.5	1738.1	1737.5	1741.7	1740.5	1733.9	1721.9	1704.8	1683.3	1656.9
-52.5°	1575.7	1585.2	1589.5	1588.7	1593.1	1592.3	1586.6	1576.1	1561.4	1542.9	1517.8
-55°	1411.0	1417.7	1419.2	1415.3	1422.4	1424.1	1420.7	1412.6	1400.4	1383.3	1362.2
-57.5°	1225.8	1229.4	1227.9	1220.9	1231.3	1236.3	1236.1	1230.9	1219.7	1203.9	1183.3
-60°	1001.7	1005.2	1002.9	993.8	1007.4	1014.4	1015.5	1011.6	1003.6	992.3	978.7
-62.5°	739.0	733.5	722.1	704.7	727.9	745.3	757.4	764.7	767.6	766.5	761.8
-65°	479.8	469.4	454.1	434.0	462.7	486.5	505.6	520.3	530.7	537.1	541.9
-67.5°	265.3	251.7	234.6	214.1	244.4	271.2	294.3	314.0	331.0	346.7	359.1
-70°	122.5	105.7	87.5	68.1	96.1	122.9	147.9	170.6	190.6	207.3	220.4
-72.5°	70.8	59.2	46.8	33.9	51.4	68.2	84.0	98.4	111.0	121.9	130.9
-75°	42.6	35.7	28.3	20.7	30.1	39.1	47.6	55.4	62.2	67.8	72.0
-77.5°	23.1	19.8	16.3	12.7	16.8	20.7	24.3	27.4	30.1	32.1	33.8
-80°	9.2	8.3	7.3	6.3	7.7	9.0	10.3	11.5	12.5	13.5	14.3
-82.5°	5.4	4.6	3.9	3.2	4.0	4.8	5.6	6.4	7.2	7.9	8.5
-85°	3.9	3.4	2.9	2.4	2.9	3.5	4.0	4.5	5.0	5.5	5.9
-87.5°	3.7	3.3	2.8	2.4	2.7	3.1	3.4	3.8	4.1	4.5	4.8
-90°	4.4	4.3	4.3	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9



REPORT NUMBER: P670555 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	4.9	5.2	5.5	5.7	6.0	5.7	5.4	5.1	4.7	4.4	4.1
87.5°	11.5	11.6	11.6	11.7	11.7	11.2	10.7	10.2	9.8	9.4	9.0
85°	31.9	31.9	31.6	31.2	30.5	28.6	26.6	24.6	23.1	21.5	19.8
82.5°	81.4	80.8	79.9	78.4	76.0	71.3	66.2	61.2	57.0	52.6	48.1
80°	160.9	159.7	157.7	154.4	149.3	139.9	130.1	120.5	111.9	102.8	92.9
77.5°	276.1	271.9	266.0	258.5	248.3	231.6	214.6	198.8	185.5	171.6	156.9
75°	409.0	401.6	393.6	384.3	370.0	347.7	324.7	300.9	276.6	252.3	229.0
72.5°	564.3	550.8	537.0	523.0	502.7	472.8	440.7	408.8	376.8	344.3	314.2
70°	733.4	714.7	693.7	671.5	643.0	608.7	570.5	532.1	494.8	454.1	411.6
67.5°	905.4	883.2	858.5	830.9	793.5	752.4	711.2	668.5	623.4	571.3	519.6
65°	1073.3	1046.3	1019.1	990.4	948.5	902.4	853.7	801.7	748.2	697.7	643.4
62.5°	1244.7	1213.4	1178.6	1140.9	1095.8	1048.0	1000.8	944.5	882.6	818.3	753.7
60°	1411.8	1382.3	1348.3	1304.2	1250.1	1192.7	1137.8	1079.1	1018.8	952.1	876.5
57.5°	1564.0	1535.3	1500.5	1454.7	1400.9	1342.5	1278.9	1210.8	1144.4	1075.4	1003.4
55°	1695.8	1663.7	1626.2	1582.8	1534.3	1474.8	1411.9	1342.9	1269.4	1191.4	1116.5
52.5°	1813.8	1780.6	1742.7	1697.1	1646.0	1589.1	1531.4	1460.5	1387.4	1307.5	1223.4
50°	1922.4	1888.8	1849.4	1801.8	1751.4	1695.8	1633.9	1566.8	1493.8	1413.5	1327.9
47.5°	2037.0	1997.7	1953.7	1900.9	1850.2	1792.3	1731.1	1664.0	1589.5	1511.7	1422.8
45°	2139.2	2104.5	2059.9	2002.8	1948.5	1884.2	1821.0	1753.2	1679.8	1598.8	1513.5
42.5°	2232.6	2196.0	2148.5	2099.4	2042.5	1979.0	1907.7	1836.6	1761.7	1681.8	1593.4
40°	2319.0	2274.3	2231.3	2184.4	2126.0	2065.6	1994.0	1920.1	1838.7	1756.9	1669.4
37.5°	2398.7	2355.1	2307.8	2256.5	2203.8	2140.8	2073.8	1996.5	1916.7	1827.1	1738.5
35°	2472.3	2429.7	2379.8	2327.9	2271.2	2209.9	2143.9	2069.2	1986.8	1896.6	1801.7
32.5°	2544.4	2496.9	2446.9	2392.2	2337.1	2272.9	2205.6	2132.9	2051.4	1965.8	1858.8
30°	2602.1	2556.3	2509.7	2453.1	2392.1	2333.4	2264.6	2192.3	2109.7	2016.8	1919.4
27.5°	2648.9	2610.9	2562.1	2507.4	2447.7	2380.6	2314.9	2243.0	2164.5	2066.1	1964.2
25°	2690.5	2654.3	2607.9	2555.9	2493.4	2430.2	2359.3	2279.5	2198.1	2108.3	2006.4
22.5°	2730.5	2688.6	2649.2	2596.8	2540.2	2471.5	2397.1	2326.6	2242.3	2150.8	2044.9
20°	2764.3	2723.3	2674.0	2630.0	2573.5	2505.8	2435.2	2354.7	2266.7	2178.2	2076.6
17.5°	2798.3	2750.7	2706.4	2652.1	2598.7	2537.9	2462.3	2383.2	2303.1	2209.1	2105.4
15°	2822.2	2776.1	2730.8	2679.1	2628.6	2560.5	2485.7	2409.7	2324.7	2230.7	2130.6
12.5°	2846.3	2802.8	2746.6	2699.0	2638.6	2578.2	2509.4	2429.2	2343.2	2246.0	2148.3
10°	2862.9	2815.2	2764.9	2711.2	2652.7	2592.4	2522.0	2442.3	2358.4	2264.0	2163.4
7.5°	2877.1	2827.1	2781.5	2720.5	2665.8	2606.5	2531.5	2450.7	2368.7	2276.6	2173.7
5°	2880.2	2831.9	2785.7	2727.8	2672.8	2611.6	2536.8	2456.6	2374.0	2281.8	2179.0
2.5°	2878.5	2831.6	2786.5	2730.4	2675.6	2609.9	2537.4	2457.8	2374.5	2282.6	2179.4
0°	2874.8	2826.6	2783.5	2728.3	2673.3	2605.7	2533.2	2453.9	2370.5	2279.0	2175.0
-2.5°	2865.2	2818.3	2774.5	2719.8	2664.4	2597.2	2524.3	2445.2	2362.3	2270.7	2167.1
-5°	2849.3	2805.4	2761.6	2706.6	2650.2	2585.8	2510.7	2431.9	2349.9	2257.7	2154.7
-7.5°	2827.9	2787.8	2745.4	2685.7	2630.9	2568.3	2492.7	2414.0	2333.2	2239.9	2137.8
-10°	2806.9	2764.2	2719.4	2660.1	2603.7	2543.9	2469.9	2391.3	2312.1	2216.9	2116.7
-12.5°	2777.8	2739.9	2691.1	2641.2	2573.6	2513.5	2441.3	2364.0	2284.0	2189.6	2088.1
-15°	2744.3	2704.7	2651.1	2605.4	2548.7	2479.3	2408.2	2333.5	2251.3	2157.4	2053.4
-17.5°	2708.5	2665.3	2622.0	2557.5	2507.5	2441.4	2369.3	2298.0	2214.1	2120.8	2016.1
-20°	2663.0	2624.1	2571.1	2524.8	2461.6	2397.0	2328.2	2255.3	2172.7	2080.0	1975.8



REPORT NUMBER: P670555 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL80DBZ-80W-2700K

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	2616.4	2572.8	2529.6	2471.8	2413.4	2346.8	2283.0	2207.8	2122.1	2029.1	1930.9
-25°	2559.0	2521.6	2471.3	2418.5	2359.8	2298.7	2229.7	2157.0	2071.9	1976.7	1878.2
-27.5°	2500.1	2457.7	2410.6	2359.5	2303.0	2239.5	2172.3	2093.8	2010.0	1920.9	1825.0
-30°	2431.1	2390.0	2345.6	2295.4	2236.1	2174.9	2104.5	2030.2	1946.9	1857.1	1756.8
-32.5°	2358.7	2318.4	2274.6	2220.0	2164.9	2102.1	2035.5	1958.9	1875.9	1788.6	1688.8
-35°	2280.5	2234.4	2191.5	2142.0	2084.5	2026.0	1957.1	1882.1	1803.0	1707.4	1616.4
-37.5°	2185.9	2147.3	2106.1	2054.1	2002.5	1941.0	1872.7	1800.1	1713.4	1631.6	1541.7
-40°	2092.4	2051.3	2012.8	1965.5	1910.5	1847.5	1780.6	1703.2	1629.7	1545.3	1458.9
-42.5°	1991.7	1956.9	1913.6	1864.7	1806.7	1745.0	1677.0	1610.8	1535.0	1455.9	1368.0
-45°	1883.1	1845.8	1799.7	1749.1	1694.6	1637.5	1575.8	1509.9	1436.2	1355.3	1266.6
-47.5°	1757.2	1717.7	1676.4	1630.9	1583.2	1526.5	1467.4	1399.3	1325.7	1244.2	1159.2
-50°	1625.8	1592.3	1554.7	1510.5	1462.7	1407.1	1344.6	1277.0	1203.7	1127.7	1049.6
-52.5°	1489.4	1458.1	1421.8	1377.2	1326.3	1270.2	1209.9	1145.4	1078.2	1006.3	926.3
-55°	1335.7	1304.9	1267.6	1224.2	1176.7	1124.9	1069.7	1009.3	943.6	869.6	788.2
-57.5°	1158.7	1131.0	1101.8	1065.9	1021.6	972.2	918.3	856.7	790.2	724.6	656.7
-60°	963.1	944.1	923.1	893.8	849.9	800.7	748.5	697.2	643.0	583.7	520.3
-62.5°	752.8	739.6	724.2	704.1	669.1	631.7	590.1	545.3	497.0	447.3	393.4
-65°	544.2	543.0	538.6	530.5	505.0	473.8	439.3	402.1	361.8	322.1	285.2
-67.5°	367.9	373.6	375.1	372.8	354.3	329.0	302.3	276.0	249.6	226.0	202.0
-70°	230.8	236.9	238.0	237.6	227.7	212.8	197.4	182.0	166.0	151.8	138.8
-72.5°	137.1	140.3	141.8	141.4	136.6	129.3	121.6	113.7	105.3	96.0	86.5
-75°	74.6	76.2	76.7	75.5	72.8	70.2	66.5	62.5	58.8	53.7	48.6
-77.5°	35.2	36.0	36.2	35.6	34.6	33.6	31.8	30.1	29.6	28.4	26.5
-80°	14.9	15.3	15.6	16.0	16.5	16.9	16.7	16.0	15.4	14.3	12.9
-82.5°	9.2	9.8	10.3	10.8	11.2	10.8	10.3	9.6	9.1	8.5	7.9
-85°	6.4	6.8	7.2	7.5	7.9	7.5	7.0	6.6	6.2	5.8	5.4
-87.5°	5.1	5.5	5.8	6.2	6.5	6.1	5.8	5.4	5.0	4.7	4.3
-90°	5.0	5.1	5.2	5.3	5.4	5.3	5.2	5.1	5.0	4.9	4.9





REPORT NUMBER: P670555 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL80DBZ-80W-2700K

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	3.8	3.5	3.1	2.8	2.5	2.2	2.2	2.2	2.3	2.3	2.3
87.5°	8.6	8.2	7.8	7.4	7.0	6.7	6.1	5.6	5.2	4.8	4.4
85°	17.9	16.0	14.0	12.7	11.7	10.6	9.2	7.9	6.9	6.1	5.4
82.5°	43.3	38.9	34.4	29.6	24.6	21.1	16.7	12.8	10.0	8.3	6.8
80°	83.8	74.4	64.7	57.1	49.8	41.9	32.3	23.7	17.2	12.7	8.8
77.5°	141.2	125.3	111.1	96.2	82.5	68.0	52.7	40.1	29.2	20.1	13.6
75°	205.9	186.6	167.5	147.2	126.5	104.7	79.9	59.8	43.6	30.6	20.4
72.5°	284.1	254.8	226.7	199.7	176.3	147.5	114.9	86.0	61.8	42.6	28.7
70°	368.9	328.2	292.4	258.9	226.7	189.6	152.5	117.0	85.0	58.1	38.1
67.5°	471.5	421.2	369.2	320.1	280.0	234.9	189.4	148.5	110.9	77.3	50.1
65°	582.0	517.0	459.7	402.0	339.3	281.2	229.5	180.7	137.1	98.2	64.1
62.5°	695.2	631.3	555.4	484.5	416.2	336.2	270.5	215.2	163.8	119.0	80.4
60°	800.1	728.0	661.1	581.0	488.2	401.9	318.4	250.4	192.6	140.6	96.6
57.5°	920.1	831.5	746.9	675.1	574.5	465.7	374.6	288.2	222.1	163.7	112.9
55°	1035.9	947.0	846.7	750.8	654.4	540.1	429.2	335.8	252.1	187.3	129.6
52.5°	1139.5	1052.2	955.0	837.0	719.0	613.1	490.0	379.8	287.1	211.0	147.6
50°	1237.5	1146.1	1051.7	931.0	793.6	673.9	554.6	428.8	324.0	234.9	165.5
47.5°	1331.4	1234.5	1133.6	1014.0	877.9	734.7	614.9	480.8	358.5	261.3	183.9
45°	1417.1	1318.8	1208.1	1086.4	957.2	805.5	665.3	533.4	399.2	289.0	201.7
42.5°	1499.2	1395.6	1281.3	1155.8	1022.0	879.5	715.8	584.6	439.2	315.3	218.6
40°	1573.2	1464.9	1350.4	1224.6	1083.9	942.1	777.5	626.9	477.4	342.2	237.1
37.5°	1640.8	1532.0	1411.4	1287.3	1146.4	994.9	839.1	666.5	520.7	372.6	255.4
35°	1700.6	1592.0	1473.6	1345.6	1206.2	1046.0	893.6	709.0	558.6	400.4	272.5
32.5°	1754.6	1646.1	1528.8	1396.0	1258.9	1099.7	934.7	757.7	590.5	425.0	288.3
30°	1803.9	1694.2	1577.3	1447.2	1306.7	1150.2	973.4	803.9	618.4	451.5	303.9
27.5°	1851.3	1737.5	1620.4	1492.8	1348.6	1195.1	1011.3	846.3	642.5	480.3	322.8
25°	1899.2	1776.5	1658.3	1532.5	1386.7	1234.1	1051.9	873.6	672.0	505.9	339.5
22.5°	1935.2	1812.6	1691.5	1565.9	1423.2	1267.6	1088.8	897.4	702.5	525.1	353.2
20°	1966.2	1846.4	1720.8	1594.4	1454.9	1297.3	1121.6	919.5	729.5	541.9	363.2
17.5°	1994.3	1876.6	1745.7	1618.7	1482.3	1321.3	1149.3	938.2	752.9	555.9	370.8
15°	2017.7	1898.7	1766.6	1638.2	1503.4	1341.9	1170.4	955.5	772.6	564.7	376.1
12.5°	2035.5	1915.8	1785.1	1653.9	1519.2	1359.3	1187.6	973.4	788.2	570.9	381.6
10°	2047.7	1929.1	1799.3	1665.7	1531.1	1372.9	1200.6	987.3	796.0	574.5	388.1
7.5°	2055.9	1938.1	1808.8	1673.5	1538.8	1382.4	1208.7	996.9	798.9	575.6	391.7
5°	2060.7	1942.6	1813.3	1677.4	1542.5	1387.6	1212.8	1002.0	798.8	574.2	392.4
2.5°	2060.5	1942.5	1813.1	1677.1	1542.4	1388.4	1212.9	1002.3	795.6	570.4	390.1
0°	2055.5	1937.9	1808.4	1672.8	1538.5	1384.9	1209.0	997.6	789.4	564.1	384.9
-2.5°	2048.3	1930.8	1801.4	1666.0	1531.8	1378.0	1202.8	992.4	785.5	561.3	381.9
-5°	2036.4	1919.2	1790.0	1655.1	1521.3	1366.6	1192.6	982.1	778.7	556.2	375.9
-7.5°	2019.7	1903.2	1774.1	1640.2	1506.8	1350.9	1178.4	966.9	768.8	548.5	367.1
-10°	1999.5	1883.1	1753.5	1621.5	1488.3	1330.9	1160.3	946.7	755.8	538.3	355.5
-12.5°	1975.2	1858.2	1728.4	1598.9	1465.8	1306.6	1137.0	921.9	737.9	525.6	341.2
-15°	1945.0	1826.4	1699.6	1572.0	1439.3	1278.4	1109.4	892.6	712.1	510.2	328.5
-17.5°	1908.3	1789.9	1665.5	1540.9	1407.0	1246.5	1077.9	864.1	682.3	492.1	317.1
-20°	1869.6	1749.2	1627.1	1504.9	1367.3	1210.8	1039.1	834.2	648.7	468.7	304.1



REPORT NUMBER: P670555 (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°	1824.0	1705.8	1587.2	1464.3	1323.3	1170.7	994.7	800.9	612.4	442.3	289.7
-25°	1769.7	1657.0	1541.9	1419.6	1275.2	1126.7	944.6	765.8	573.3	413.3	271.4
-27.5°	1712.8	1602.5	1491.0	1366.8	1224.0	1075.9	888.6	727.2	534.7	380.0	249.7
-30°	1655.1	1548.3	1434.8	1306.5	1169.4	1018.2	836.9	673.5	500.1	344.3	226.6
-32.5°	1587.5	1485.9	1373.7	1242.4	1111.0	953.4	785.3	616.7	461.4	313.9	208.8
-35°	1521.7	1417.3	1300.9	1176.1	1044.9	879.7	731.5	560.2	418.2	289.5	192.4
-37.5°	1445.8	1342.4	1224.5	1106.9	969.2	812.6	664.5	507.5	371.8	260.9	175.6
-40°	1364.8	1256.9	1146.5	1029.5	884.0	745.2	592.4	455.6	323.1	227.9	158.6
-42.5°	1271.1	1169.3	1064.8	942.1	802.5	668.6	523.3	400.1	289.7	202.3	141.1
-45°	1173.0	1080.4	972.9	843.1	721.4	583.4	459.1	342.9	253.5	180.2	123.6
-47.5°	1073.5	979.3	868.3	752.1	626.9	504.4	393.5	294.6	212.9	157.7	106.0
-50°	962.8	863.6	763.5	651.8	535.1	427.7	328.4	252.8	186.7	135.2	88.2
-52.5°	836.0	747.1	651.7	547.5	445.7	353.9	277.3	207.3	159.6	112.8	72.7
-55°	711.3	626.0	536.6	447.8	362.4	289.3	226.8	177.5	132.3	91.5	58.0
-57.5°	580.6	505.9	427.5	355.1	290.6	235.4	186.7	145.2	106.1	72.1	46.6
-60°	457.6	391.7	331.4	279.2	231.9	188.2	151.4	114.6	81.3	55.3	36.0
-62.5°	342.2	294.9	254.6	214.6	182.7	149.5	116.2	86.2	60.8	42.3	26.0
-65°	251.2	219.7	187.2	166.3	139.5	110.6	84.6	62.1	45.3	30.2	18.1
-67.5°	176.6	159.6	140.0	118.8	98.0	76.6	58.2	44.6	31.3	20.1	12.4
-70°	124.2	108.8	93.0	78.7	64.4	50.8	40.7	28.8	19.5	12.7	8.7
-72.5°	76.9	67.1	57.5	47.7	41.8	33.1	22.9	16.7	11.9	8.5	6.3
-75°	42.4	38.7	34.9	29.0	21.5	17.1	12.7	9.8	7.7	6.0	4.9
-77.5°	23.6	19.6	17.1	13.9	11.3	9.0	7.5	6.5	5.5	4.6	3.9
-80°	11.6	10.3	8.7	7.7	6.9	6.1	5.4	4.7	4.1	3.6	3.1
-82.5°	7.3	6.7	6.1	5.4	4.8	4.1	3.6	3.2	2.9	2.8	2.6
-85°	4.9	4.4	3.9	3.4	3.0	2.5	2.4	2.3	2.3	2.4	2.4
-87.5°	3.9	3.5	3.2	2.8	2.5	2.1	2.1	2.2	2.2	2.3	2.3
-90°	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.0	3.9	3.7	3.6

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	2.4	2.4	2.4	2.4	2.5	2.5	2.5
87.5°	4.0	3.7	3.4	3.1	2.9	2.7	2.5
85°	4.7	4.1	3.7	3.3	3.0	2.7	2.5
82.5°	5.6	4.8	4.1	3.5	3.0	2.7	2.5
80°	7.1	5.5	4.5	3.7	3.1	2.8	2.5
77.5°	9.3	6.6	5.0	4.0	3.2	2.8	2.5
75°	12.8	8.2	5.7	4.2	3.4	2.8	2.5
72.5°	18.0	10.7	6.4	4.6	3.5	2.8	2.5
70°	23.8	13.8	7.9	5.0	3.6	2.8	2.5
67.5°	31.0	17.6	9.4	5.4	3.8	2.9	2.5
65°	39.0	22.1	11.4	6.0	3.9	2.9	2.5
62.5°	47.8	27.1	13.7	6.8	4.1	2.9	2.5
60°	59.5	32.6	15.9	7.6	4.3	3.0	2.5
57.5°	71.5	38.5	19.1	8.3	4.4	3.0	2.5
55°	83.1	45.1	22.2	9.4	4.6	3.1	2.5
52.5°	94.3	53.6	25.3	10.5	4.7	3.1	2.5
50°	106.8	61.6	28.8	11.5	5.0	3.1	2.5
47.5°	118.7	69.1	32.0	12.5	5.3	3.2	2.5
45°	131.5	75.9	35.3	14.2	5.5	3.2	2.5
42.5°	143.4	83.2	40.3	15.7	5.6	3.2	2.5
40°	156.3	90.8	44.8	17.0	5.8	3.2	2.5
37.5°	168.2	97.8	48.9	18.2	5.9	3.3	2.5
35°	179.3	104.9	52.5	19.4	6.1	3.3	2.5
32.5°	189.4	111.8	55.6	20.5	6.3	3.3	2.5
30°	198.4	117.8	58.2	21.4	6.5	3.3	2.5
27.5°	207.9	123.4	60.4	22.2	6.6	3.3	2.5
25°	216.1	129.1	62.5	22.7	6.6	3.3	2.5
22.5°	222.9	134.0	65.1	23.1	6.6	3.3	2.5
20°	228.5	138.0	67.1	23.6	6.6	3.3	2.5
17.5°	233.5	141.2	68.7	24.5	6.5	3.3	2.5
15°	237.0	143.5	69.7	25.1	6.4	3.3	2.5
12.5°	239.1	145.0	70.2	25.5	6.2	3.3	2.5
10°	239.7	145.6	70.3	25.6	6.1	3.3	2.5
7.5°	239.0	145.3	69.8	25.4	5.9	3.3	2.5
5°	237.0	144.2	68.9	25.1	5.6	3.3	2.5
2.5°	233.7	142.2	67.6	24.4	5.4	3.2	2.5
0°	229.2	139.5	65.8	23.6	5.1	3.2	2.5
-2.5°	228.0	138.7	65.4	23.4	5.1	3.2	2.5
-5°	225.6	137.2	64.6	23.1	5.1	3.2	2.5
-7.5°	222.1	134.9	63.3	22.5	5.1	3.2	2.5
-10°	217.5	131.8	61.7	21.7	5.0	3.2	2.5
-12.5°	211.8	128.0	59.7	20.7	5.0	3.2	2.5
-15°	205.1	123.4	57.3	19.6	4.9	3.2	2.5
-17.5°	197.3	118.2	54.6	18.3	4.9	3.1	2.5
-20°	188.6	112.2	51.5	16.7	4.8	3.1	2.5

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	179.7	105.5	48.1	15.6	4.7	3.1	2.5
-25°	170.2	98.2	44.3	14.9	4.6	3.1	2.5
-27.5°	159.9	90.3	41.2	14.0	4.5	3.1	2.5
-30°	148.7	83.0	38.2	13.1	4.4	3.0	2.5
-32.5°	137.3	75.6	35.0	12.1	4.2	3.0	2.5
-35°	125.1	67.8	31.6	11.0	4.1	3.0	2.5
-37.5°	112.4	60.1	27.9	9.9	3.9	2.9	2.5
-40°	99.4	53.2	24.2	8.9	3.9	2.9	2.5
-42.5°	85.7	46.0	20.3	7.8	3.8	2.9	2.5
-45°	74.3	39.6	16.3	6.7	3.7	2.9	2.5
-47.5°	62.5	33.9	14.1	5.6	3.6	2.8	2.5
-50°	52.7	27.9	12.2	5.1	3.5	2.8	2.5
-52.5°	43.1	22.5	10.2	4.7	3.4	2.8	2.5
-55°	35.0	16.9	8.6	4.4	3.3	2.7	2.5
-57.5°	27.0	13.4	6.9	4.1	3.2	2.7	2.5
-60°	20.2	10.8	5.4	3.8	3.1	2.7	2.5
-62.5°	14.1	8.5	4.9	3.6	3.0	2.6	2.5
-65°	10.9	6.5	4.4	3.4	2.9	2.6	2.5
-67.5°	8.1	5.1	3.9	3.2	2.8	2.6	2.5
-70°	5.9	4.5	3.6	3.1	2.8	2.5	2.5
-72.5°	4.8	3.9	3.2	2.9	2.7	2.5	2.5
-75°	4.0	3.4	3.0	2.8	2.6	2.5	2.5
-77.5°	3.4	3.0	2.8	2.7	2.5	2.5	2.5
-80°	2.9	2.7	2.6	2.6	2.5	2.5	2.5
-82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5
-85°	2.4	2.4	2.4	2.5	2.5	2.5	2.5
-87.5°	2.4	2.4	2.4	2.4	2.5	2.5	2.5
-90°	3.4	3.3	3.1	3.0	2.8	2.7	2.5

(END OF REPORT)