

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P27505

Luminaire Tested: **XTOR4B-W-FLD-KNC**

Test Date: 03/07/16

Test Information

Test Method: LM-79-08
Report Number: P27505
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P27505)
Test Lab: INNOVATION CENTER-P2
Test Date: 03/07/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR4B-W-FLD-KNC
Description: CROSSTOUR 41W FLOOD LED WITH BRONZE HOUSING AND VISOR
Light Source:

Ballast/Driver: (1) ERP ELECTRONIC DRIVER
ESP040W-0940-43-CPLV

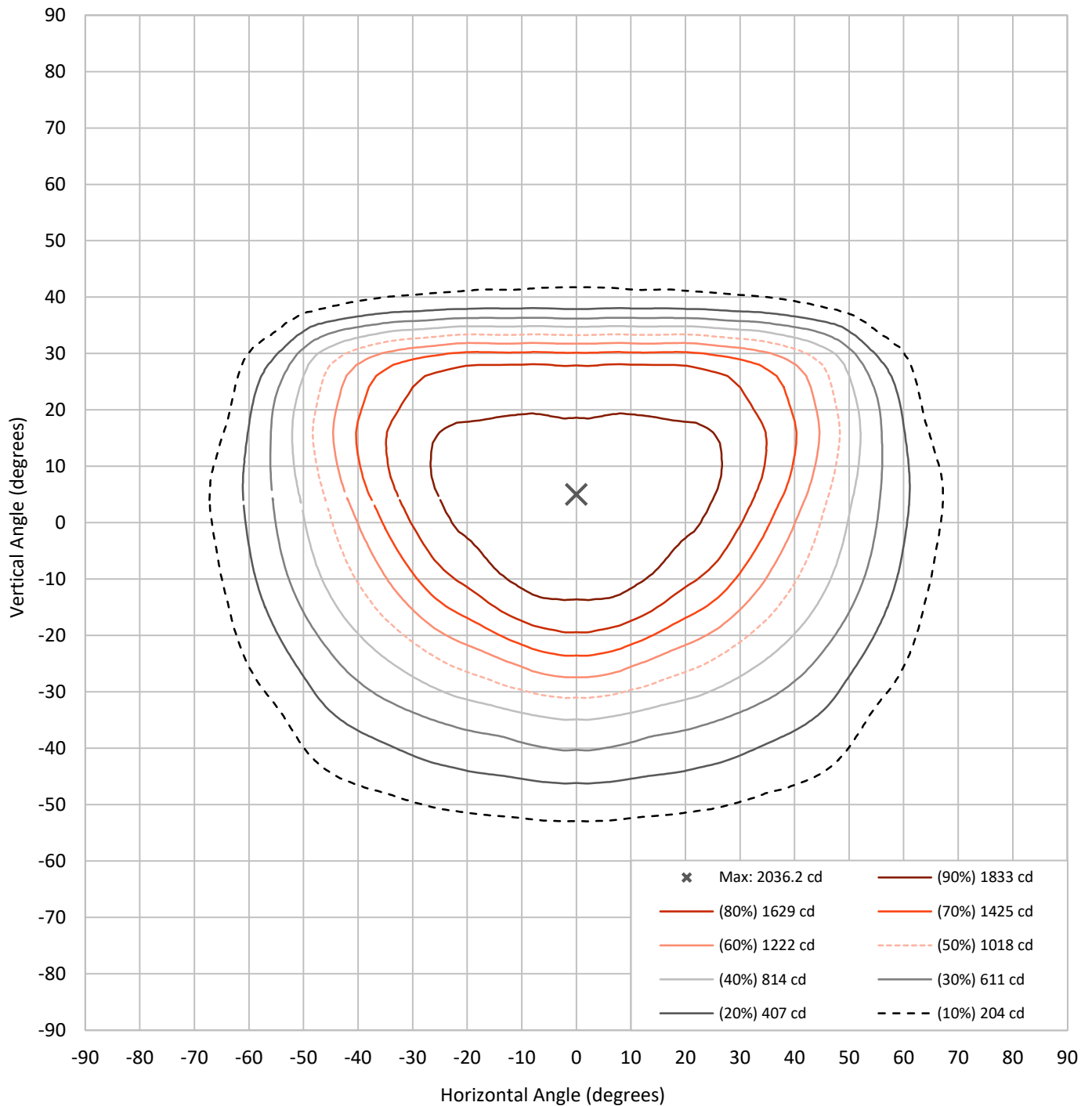
Summary

Lumens per Lamp: N/A	NEMA Type: 7H x 5V
Luminaire Lumens: 3121 lumens	Max Intensity: 2036.2 candela
Efficiency: N/A	Max Intensity Angle: 0°H x 5°V
Efficacy: 82.8 lumens/watt	
Luminous Opening: (L: 0' x W: 0.56' x H: 0.21')	
Beam Angle (50%): 92.5°H x 64.3°V	Field Angle (10%): 134.5°H x 94.7°V
Beam Lumens: 2258.2 lumens	Field Lumens: 2998 lumens
Beam Efficiency: 72.4%	Field Efficiency: 96.1%
Input Watts (W): 37.7	
Input Voltage (V): 120.1	
Input Current (A _{in}): 0.320	
Voltage Rise (V): NR	
Power Factor: 0.9879	
Total Harmonic Distortion (THDi): 13.6%	
Frequency (hertz): 60	
Stabilization Time: 0.5 HR	
Operation Time: 24 HR	
Ambient Temperature (°C): 25.0	
Test Distance: 25 FT	



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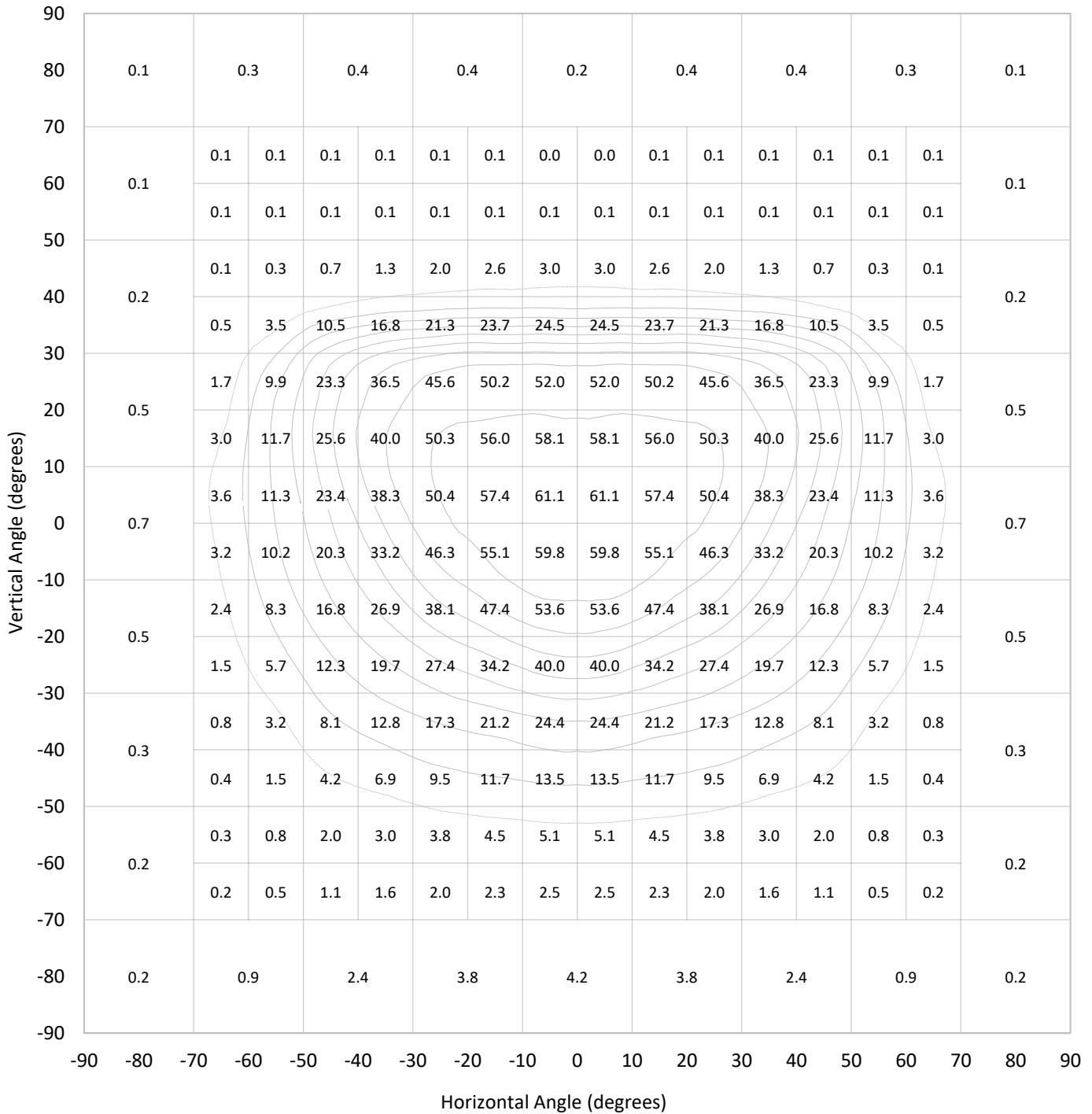
Iso-Candela Plot





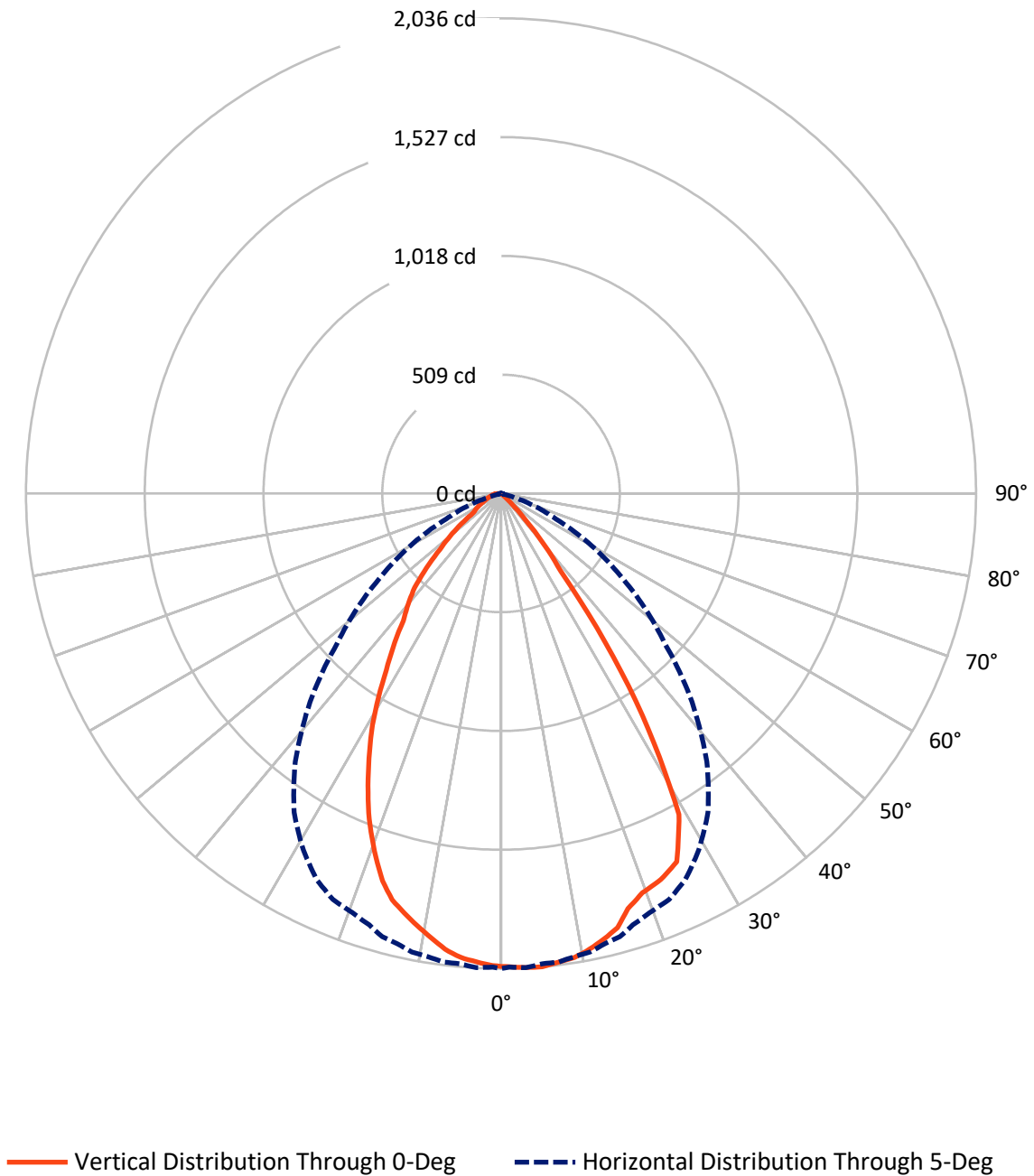
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Lumen Table



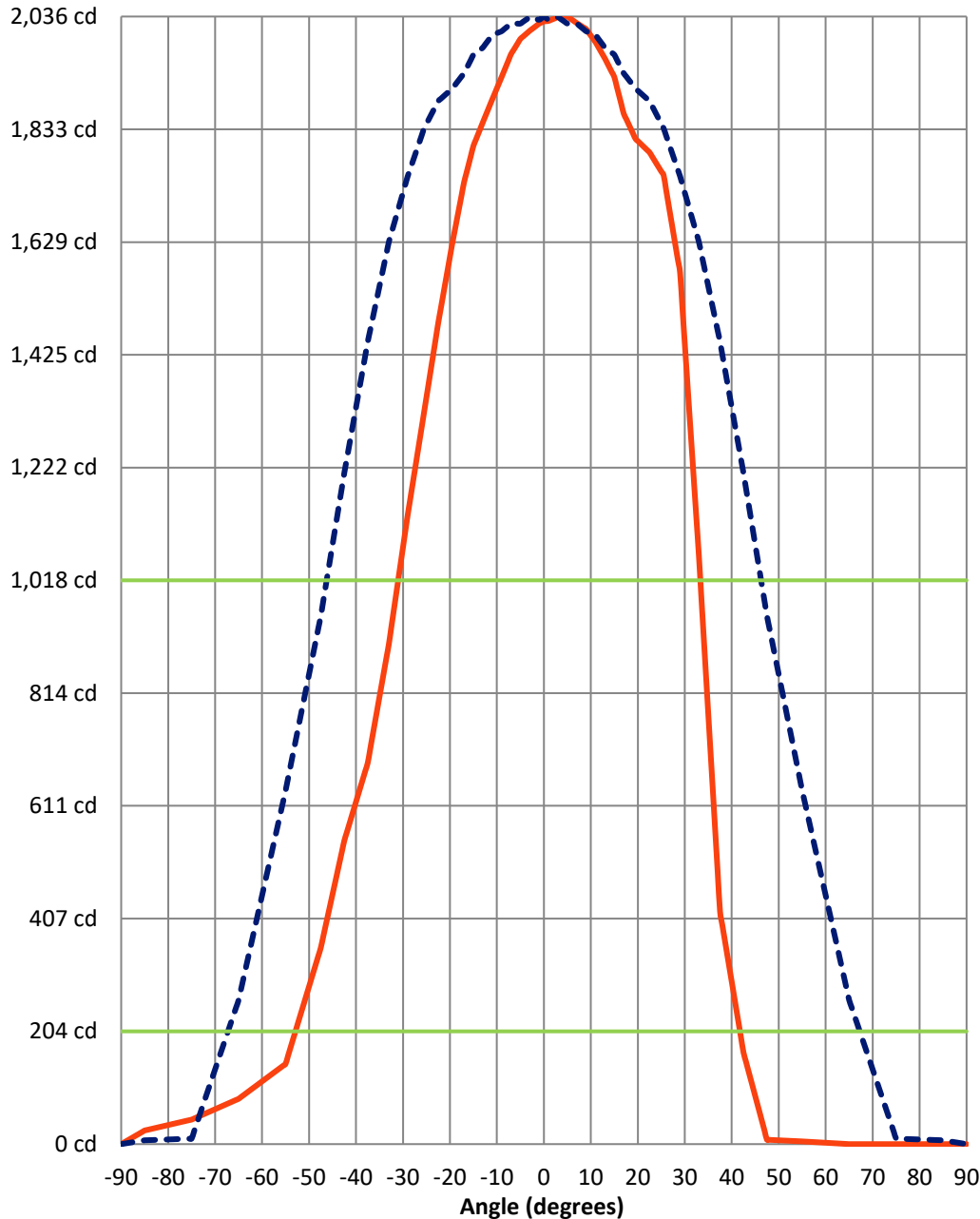
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 92.5°
 V Angle: 64.3°
 Lumens: 2258.2
 Efficiency: 72.4%

Field:
 H Angle: 134.5°
 V Angle: 94.7°
 Lumens: 2998
 Efficiency: 96.1%

Spill:
 Lumens: 123.1
 Efficiency: 3.9%

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



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FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	1.0	2.0	3.0	3.0	3.9	3.9	4.9	4.9	4.9	4.9
75°	0.0	0.0	1.0	2.0	2.0	2.0	3.0	2.0	2.0	2.0	3.0
65°	0.0	0.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
55°	4.9	4.9	4.9	4.9	4.9	3.9	3.9	3.9	3.9	3.9	3.9
47.5°	7.9	7.9	7.9	7.9	7.9	6.9	6.9	6.9	6.9	6.9	6.9
42.5°	165.5	168.5	162.5	159.6	153.7	141.9	130.0	128.1	131.0	138.9	123.1
37.5°	420.6	416.7	426.5	432.5	441.3	438.4	435.4	435.4	440.3	438.4	426.5
33°	1062.9	1068.8	1061.9	1072.8	1083.6	1076.7	1067.8	1058.0	1066.9	1073.8	1082.6
29°	1573.2	1561.4	1573.2	1574.2	1590.9	1581.1	1576.2	1576.2	1580.1	1588.0	1586.0
25.5°	1749.5	1739.7	1749.5	1751.5	1769.2	1761.4	1763.3	1759.4	1746.6	1733.8	1728.9
22.5°	1790.9	1781.1	1788.9	1786.0	1798.8	1790.9	1788.0	1783.0	1774.2	1761.4	1759.4
19.5°	1815.5	1805.7	1815.5	1812.6	1827.4	1822.4	1819.5	1811.6	1805.7	1795.8	1793.9
17°	1860.9	1854.0	1867.7	1868.7	1886.5	1884.5	1887.5	1883.5	1876.6	1864.8	1855.9
15°	1926.9	1920.0	1931.8	1932.8	1948.5	1943.6	1947.5	1942.6	1935.7	1914.0	1899.3
13°	1960.3	1953.5	1962.3	1960.3	1976.1	1970.2	1972.2	1962.3	1954.4	1929.8	1912.1
11°	1989.9	1985.0	1995.8	1988.9	1995.8	1988.9	1991.9	1978.1	1968.2	1940.6	1920.9
9°	2013.5	2006.6	2011.6	2004.7	2010.6	1998.8	1996.8	1983.0	1972.2	1942.6	1920.0
7°	2024.4	2019.5	2027.3	2013.5	2016.5	2005.7	2001.7	1983.0	1972.2	1937.7	1915.0
5°	2036.2	2030.3	2035.2	2023.4	2023.4	2009.6	2002.7	1980.1	1967.2	1933.8	1906.2
3°	2035.2	2030.3	2034.2	2022.4	2024.4	2004.7	1996.8	1972.2	1955.4	1920.0	1891.4
1°	2028.3	2025.4	2030.3	2017.5	2018.5	1999.8	1988.9	1961.3	1940.6	1902.2	1904.2
0°	2027.3	2023.4	2029.3	2015.5	2017.5	1997.8	1986.0	1959.4	1935.7	1897.3	1894.3
-1°	2023.4	2018.5	2025.4	2013.5	2014.5	1994.8	1982.0	1953.5	1930.8	1890.4	1863.8
-3°	2010.6	2008.6	2015.5	2001.7	1999.8	1979.1	1966.3	1940.6	1917.0	1872.7	1837.2
-5°	1995.8	1992.9	1994.8	1981.0	1977.1	1957.4	1945.6	1919.0	1893.4	1845.1	1801.7
-7°	1968.2	1966.3	1968.2	1953.5	1954.4	1932.8	1918.0	1890.4	1860.9	1807.7	1760.4
-9°	1926.9	1927.8	1933.8	1925.9	1926.9	1903.2	1883.5	1852.0	1819.5	1762.3	1709.1
-11°	1886.5	1885.5	1895.3	1891.4	1895.3	1862.8	1840.2	1803.7	1767.3	1709.1	1652.0
-13°	1845.1	1847.1	1852.0	1846.1	1847.1	1810.6	1785.0	1743.6	1704.2	1646.1	1590.9
-15°	1802.7	1803.7	1800.8	1787.0	1783.0	1747.6	1714.1	1673.7	1631.3	1572.2	1513.1
-17°	1736.7	1746.6	1733.8	1717.0	1704.2	1669.7	1633.3	1592.9	1546.6	1489.5	1432.3
-19.5°	1626.4	1635.3	1621.5	1596.8	1586.0	1547.6	1516.1	1472.7	1424.5	1372.2	1322.0
-22.5°	1482.6	1491.4	1478.6	1457.0	1441.2	1399.8	1361.4	1322.0	1275.7	1235.3	1195.9
-25.5°	1322.0	1325.9	1322.0	1296.4	1284.6	1243.2	1199.9	1172.3	1137.8	1107.3	1066.9
-29°	1135.8	1141.7	1133.9	1116.1	1103.3	1064.9	1038.3	1022.5	980.2	948.7	915.2
-33°	903.3	913.2	902.4	887.6	874.8	854.1	832.4	810.7	787.1	773.3	753.6
-37.5°	688.6	695.5	691.5	678.7	668.9	657.1	644.3	625.5	611.7	600.9	586.1
-42.5°	547.7	553.6	548.7	543.8	533.9	522.1	510.3	492.6	484.7	474.8	463.0
-47.5°	354.6	361.5	354.6	353.7	345.8	335.9	324.1	316.2	309.3	302.4	289.6
-55°	144.8	145.8	144.8	144.8	141.9	137.9	134.0	133.0	132.0	130.0	127.1
-65°	81.8	82.7	81.8	80.8	78.8	77.8	77.8	75.9	73.9	72.9	71.9
-75°	44.3	44.3	44.3	43.3	45.3	44.3	44.3	43.3	43.3	43.3	42.4
-85°	24.6	24.6	25.6	26.6	27.6	28.6	29.6	29.6	29.6	29.6	28.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: XTOR4B-W-FLD-KNC

CANDELA DISTRIBUTION (continued):

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.9	4.9	4.9	4.9	4.9	5.9	5.9	6.9	6.9	6.9	6.9
75°	3.0	3.0	3.9	3.9	3.9	3.9	4.9	5.9	5.9	6.9	6.9
65°	2.0	2.0	2.0	3.0	3.0	3.9	3.9	4.9	5.9	6.9	6.9
55°	3.9	4.9	4.9	4.9	4.9	4.9	4.9	5.9	5.9	7.9	6.9
47.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.9	6.9
42.5°	102.5	98.5	81.8	65.0	49.3	35.5	23.6	12.8	8.9	8.9	6.9
37.5°	427.5	406.8	379.3	368.4	323.1	265.0	208.8	63.0	10.8	8.9	6.9
33°	1068.8	1024.5	985.1	957.5	859.0	748.7	594.0	227.6	18.7	8.9	6.9
29°	1559.4	1523.9	1482.6	1394.9	1290.5	1096.4	888.6	435.4	36.4	8.9	6.9
25.5°	1714.1	1682.6	1632.3	1546.6	1426.4	1228.4	965.4	555.6	64.0	8.9	6.9
22.5°	1752.5	1721.0	1667.8	1590.0	1466.8	1271.8	1001.8	616.7	94.6	9.9	6.9
19.5°	1791.9	1762.3	1707.2	1628.4	1506.2	1310.2	1039.3	648.2	130.0	9.9	6.9
17°	1847.1	1811.6	1751.5	1668.8	1541.7	1335.8	1062.9	657.1	163.5	9.9	6.9
15°	1885.5	1845.1	1779.1	1688.5	1552.5	1334.8	1062.9	659.0	189.1	9.9	6.9
13°	1897.3	1854.0	1780.1	1687.5	1544.6	1322.0	1048.1	659.0	210.8	9.9	6.9
11°	1904.2	1859.9	1783.0	1685.5	1533.8	1304.3	1029.4	657.1	230.5	9.9	6.9
9°	1903.2	1859.9	1778.1	1674.7	1516.1	1278.7	1007.8	653.1	246.3	9.9	6.9
7°	1896.3	1852.0	1766.3	1656.9	1488.5	1248.1	983.1	646.2	256.1	9.9	6.9
5°	1883.5	1834.3	1747.6	1629.4	1449.1	1211.7	953.6	638.3	260.1	9.9	6.9
3°	1865.8	1817.5	1723.9	1592.9	1404.8	1169.3	927.0	629.5	258.1	9.9	6.9
1°	1848.0	1795.8	1691.4	1554.5	1359.4	1130.9	906.3	619.6	251.2	9.9	6.9
0°	1838.2	1783.0	1675.7	1536.8	1337.8	1113.2	898.4	614.7	246.3	9.9	6.9
-1°	1828.3	1770.2	1655.0	1514.1	1318.1	1097.4	889.5	608.8	242.3	9.9	6.9
-3°	1796.8	1730.8	1614.6	1465.8	1271.8	1067.8	870.8	596.0	232.5	9.9	7.9
-5°	1755.4	1686.5	1568.3	1415.6	1228.4	1034.4	848.2	581.2	222.6	9.9	7.9
-7°	1709.1	1639.2	1516.1	1364.4	1184.1	1001.8	825.5	564.5	211.8	9.9	7.9
-9°	1656.0	1582.1	1460.9	1313.1	1136.8	969.3	799.9	544.8	201.0	10.8	7.9
-11°	1595.9	1523.0	1401.8	1259.0	1092.5	932.9	770.3	522.1	189.1	10.8	7.9
-13°	1527.9	1453.0	1335.8	1198.9	1046.2	895.5	738.8	496.5	176.3	10.8	7.9
-15°	1451.1	1378.2	1268.8	1139.8	997.9	854.1	704.3	468.9	163.5	10.8	7.9
-17°	1372.2	1306.2	1198.9	1075.7	948.7	811.7	666.9	440.3	151.7	10.8	7.9
-19.5°	1270.8	1204.8	1103.3	995.0	882.6	755.6	617.7	402.9	135.9	11.8	7.9
-22.5°	1146.7	1080.7	992.0	904.3	802.9	688.6	558.6	357.6	116.2	11.8	7.9
-25.5°	1019.6	959.5	890.5	812.7	723.1	620.6	500.4	311.3	97.5	11.8	7.9
-29°	883.6	832.4	776.3	709.3	634.4	544.8	438.4	254.2	75.9	11.8	7.9
-33°	724.0	686.6	642.3	591.1	533.9	463.0	372.4	190.1	54.2	12.8	7.9
-37.5°	561.5	533.9	500.4	461.0	419.7	362.5	289.6	130.0	34.5	12.8	7.9
-42.5°	438.4	418.7	388.1	354.6	313.3	262.0	204.9	86.7	27.6	12.8	7.9
-47.5°	275.8	262.0	239.4	218.7	195.0	168.5	136.9	49.3	26.6	11.8	7.9
-55°	125.1	122.2	119.2	116.2	108.4	99.5	81.8	38.4	21.7	11.8	7.9
-65°	69.9	68.0	65.0	62.1	58.1	51.2	39.4	25.6	16.7	11.8	7.9
-75°	41.4	40.4	39.4	37.4	35.5	30.5	25.6	19.7	14.8	10.8	7.9
-85°	27.6	27.6	26.6	24.6	23.6	21.7	19.7	16.7	12.8	10.8	7.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: XTOR4B-W-FLD-KNC

CANDELA DISTRIBUTION (continued):

	90°
90°	0.0
85°	0.0
75°	0.0
65°	0.0
55°	0.0
47.5°	0.0
42.5°	0.0
37.5°	0.0
33°	0.0
29°	0.0
25.5°	0.0
22.5°	0.0
19.5°	0.0
17°	0.0
15°	0.0
13°	0.0
11°	0.0
9°	0.0
7°	0.0
5°	0.0
3°	0.0
1°	0.0
0°	0.0
-1°	0.0
-3°	0.0
-5°	0.0
-7°	0.0
-9°	0.0
-11°	0.0
-13°	0.0
-15°	0.0
-17°	0.0
-19.5°	0.0
-22.5°	0.0
-25.5°	0.0
-29°	0.0
-33°	0.0
-37.5°	0.0
-42.5°	0.0
-47.5°	0.0
-55°	0.0
-65°	0.0
-75°	0.0
-85°	0.0
-90°	0.0

(END OF REPORT)