

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: P218826

Luminaire Tested: **XTOR4B-Y**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27503)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR4B-Y
Description: CROSSTOUR WALL MOUNT LED

Light Source: EATON LED 3000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3995 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 0.19' x L: 0.52' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G0

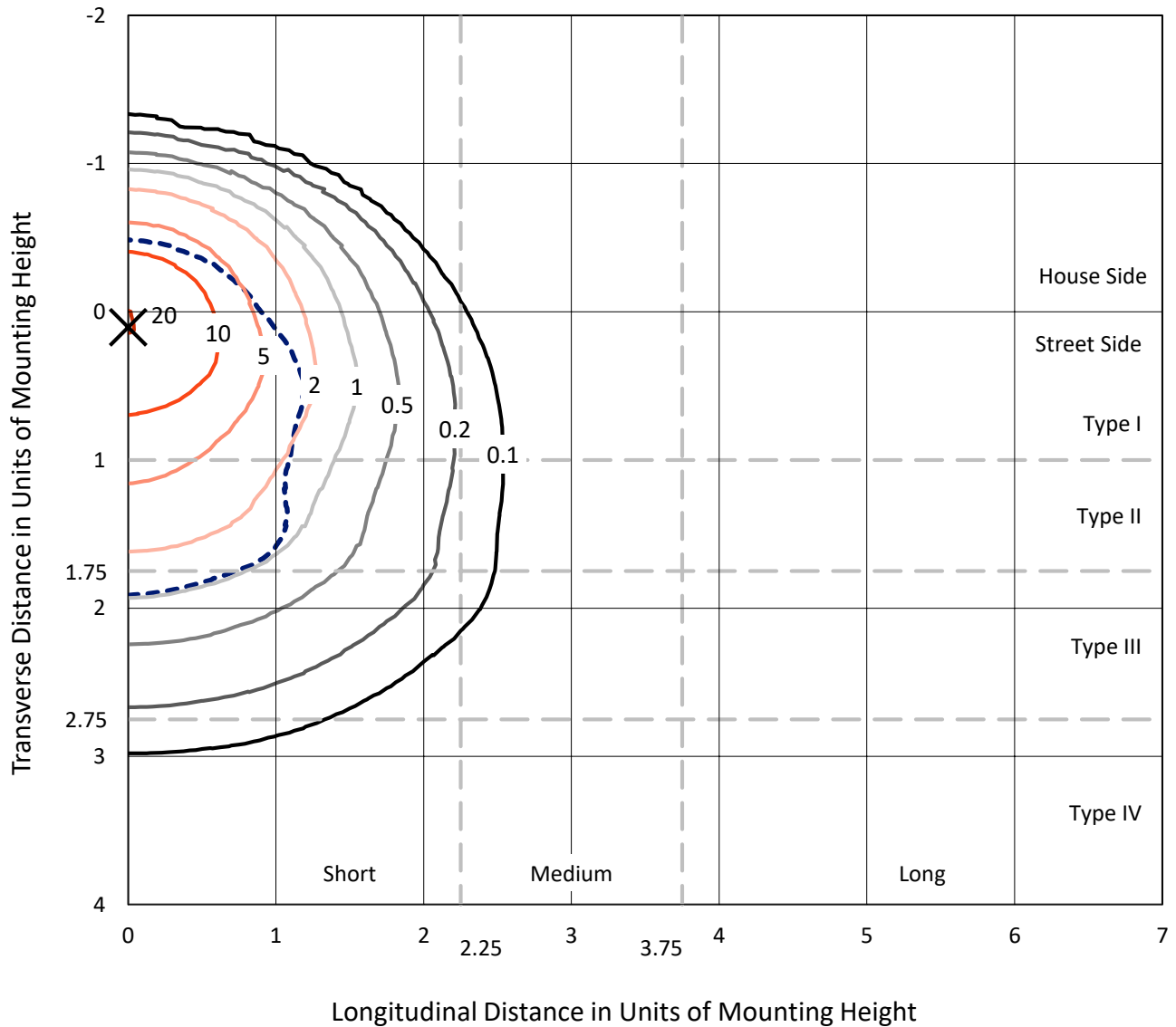
Input Watts (W): 37.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

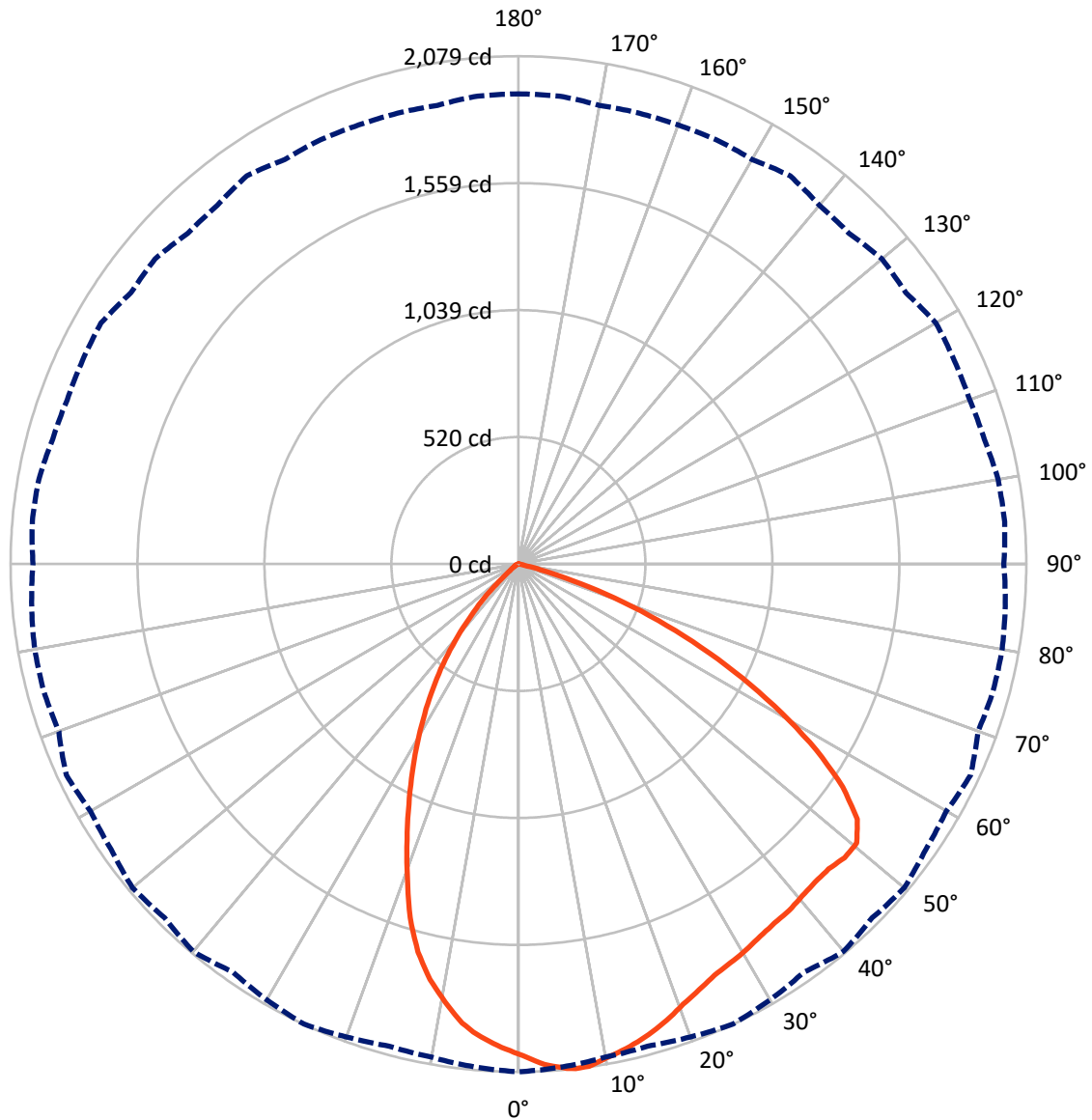
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 6-Deg Vertical

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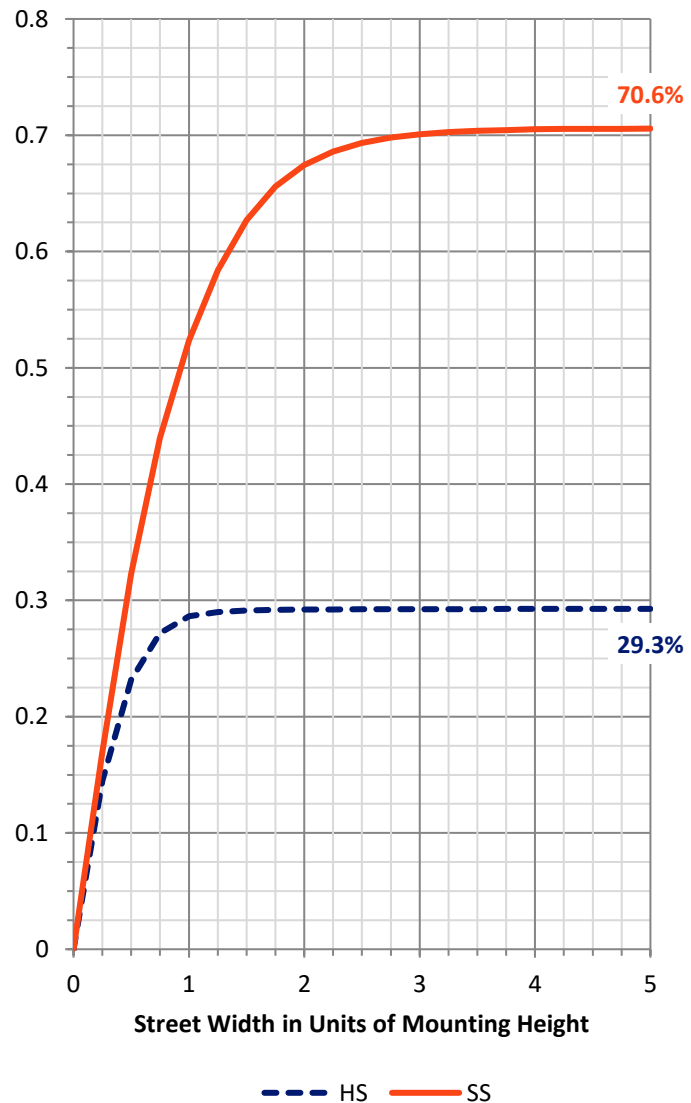
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1180.2	0.0	1180.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	2814.8	0.0	2814.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	3995.0	0.0	3995.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	4.7
10°-20°	520.8	13.0
20°-30°	729.2	18.3
30°-40°	804.2	20.1
40°-50°	750.5	18.8
50°-60°	586.0	14.7
60°-70°	332.2	8.3
70°-80°	80.5	2.0
80°-90°	3.0	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3995.0	100.0
0°-180°	3995.0	100.0

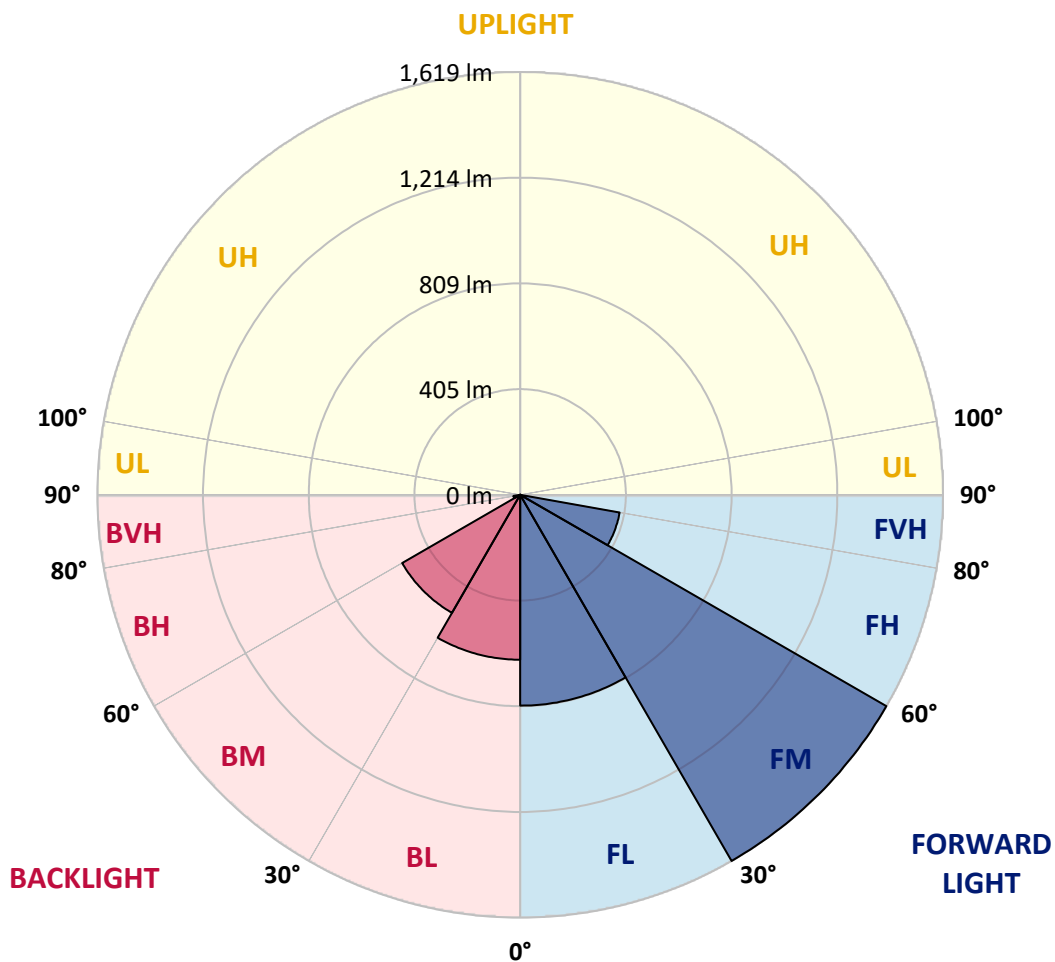


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	807.2	20.2			
FM	(30°-60°)	1618.8	40.5			
FH	(60°-80°)	386.7	9.7			G0/660
FVH	(80°-90°)	2.1	0.1			G0/10
BL	(0°-30°)	631.5	15.8	B2/1000		
BM	(30°-60°)	521.9	13.1	B1/1000		
BH	(60°-80°)	26.0	0.7	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2
2.5°	2051.5	2039.3	2022.4	2016.8	2034.6	2049.6	2034.6	2017.8	2048.7	2029.0	2044.9
5°	2073.9	2063.6	2044.9	2037.4	2056.1	2073.9	2055.2	2036.5	2068.3	2045.8	2060.8
6°	2078.6	2066.4	2049.6	2043.0	2059.9	2077.7	2059.9	2038.4	2070.2	2047.7	2061.8
7.5°	2075.8	2061.8	2044.9	2038.4	2056.1	2072.1	2055.2	2035.6	2066.4	2044.0	2058.0
10°	2049.6	2038.4	2025.3	2020.6	2037.4	2054.3	2036.5	2015.9	2049.6	2029.0	2040.2
12.5°	2027.1	2015.0	2000.9	1996.2	2016.8	2040.2	2025.3	2004.7	2039.3	2016.8	2029.0
15°	1998.1	1986.9	1979.4	1976.6	1999.1	2028.1	2017.8	2000.0	2035.6	2014.0	2025.3
17.5°	1963.5	1953.2	1944.8	1946.6	1970.0	2001.9	1994.4	1978.5	2021.5	2001.9	2016.8
20°	1924.2	1914.8	1903.6	1903.6	1929.8	1966.3	1964.4	1953.2	2000.0	1984.1	1999.1
22.5°	1893.3	1880.2	1868.0	1865.2	1881.1	1917.6	1918.6	1912.0	1962.6	1951.3	1971.9
25°	1864.3	1853.1	1844.6	1839.0	1854.9	1884.9	1885.8	1879.3	1933.5	1924.2	1945.7
27.5°	1848.4	1839.0	1824.0	1821.2	1835.3	1862.4	1860.5	1852.1	1904.5	1902.7	1922.3
30°	1834.3	1820.3	1807.2	1799.7	1810.0	1840.0	1835.3	1818.4	1869.0	1869.0	1895.2
32.5°	1816.6	1805.3	1791.3	1782.9	1788.5	1812.8	1807.2	1781.9	1822.2	1823.1	1853.1
35°	1805.3	1794.1	1781.0	1767.9	1770.7	1791.3	1781.0	1751.0	1781.9	1774.4	1807.2
37.5°	1799.7	1787.5	1772.6	1756.7	1756.7	1769.8	1752.0	1719.2	1744.5	1722.0	1746.4
40°	1787.5	1775.4	1758.5	1738.9	1733.3	1740.7	1720.2	1680.9	1698.6	1666.8	1679.9
42.5°	1780.1	1765.1	1748.2	1723.0	1708.0	1711.7	1680.9	1633.1	1643.4	1606.0	1602.2
45°	1780.1	1760.4	1738.9	1708.0	1683.7	1675.2	1637.8	1577.9	1577.9	1532.0	1518.0
47.5°	1796.0	1772.6	1743.6	1702.4	1654.6	1634.1	1585.4	1515.2	1500.2	1448.8	1424.4
50°	1795.0	1776.3	1748.2	1703.3	1639.7	1587.3	1519.9	1435.6	1405.7	1348.6	1310.2
52.5°	1736.1	1717.4	1695.8	1665.9	1612.5	1550.8	1454.4	1344.9	1296.2	1231.6	1183.9
55°	1610.7	1598.5	1585.4	1559.2	1520.8	1487.1	1392.6	1253.2	1186.7	1107.2	1053.8
57.5°	1439.4	1432.8	1421.6	1403.8	1381.4	1363.6	1307.4	1185.8	1080.0	984.6	934.0
60°	1238.2	1231.6	1223.2	1215.7	1202.6	1204.5	1183.9	1105.3	1008.9	884.4	825.5
62.5°	1028.5	1021.1	1018.2	1007.9	1009.8	1021.1	1021.1	982.7	934.0	810.5	722.5
65°	821.7	818.0	819.8	820.8	815.2	824.5	829.2	818.9	813.3	745.0	630.8
67.5°	617.7	616.7	625.2	625.2	633.6	645.8	644.8	633.6	657.9	637.3	562.5
70°	416.5	418.3	422.1	433.3	448.3	457.6	466.1	472.6	476.4	487.6	467.9
72.5°	231.2	234.9	242.4	263.9	274.2	288.3	298.5	310.7	317.3	330.4	333.2
75°	92.7	96.4	103.9	114.2	124.5	145.1	152.5	167.5	180.6	189.0	193.7
77.5°	22.5	24.3	26.2	29.9	33.7	44.0	50.5	62.7	73.0	80.5	89.8
80°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	12.2	14.0	18.7	21.5
82.5°	5.6	4.7	4.7	5.6	5.6	4.7	5.6	4.7	4.7	4.7	4.7
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9	1.9
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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2
2.5°	2020.6	2012.2	2033.7	1999.1	2010.3	2014.0	2006.5	1994.4	2011.2	2013.1	1993.4
5°	2035.6	2022.4	2043.0	2003.7	2014.0	2015.0	2002.8	1990.6	2003.7	1999.1	1982.2
6°	2035.6	2022.4	2042.1	2001.9	2011.2	2010.3	2000.0	1986.9	1997.2	1993.4	1973.8
7.5°	2029.9	2016.8	2036.5	1994.4	2002.8	2000.9	1987.8	1972.8	1982.2	1978.5	1956.9
10°	2013.1	1999.1	2017.8	1974.7	1980.3	1974.7	1958.8	1941.0	1947.6	1940.1	1916.7
12.5°	1997.2	1986.0	2000.0	1955.1	1957.9	1949.5	1929.8	1909.2	1913.0	1902.7	1874.6
15°	1994.4	1981.3	1993.4	1948.5	1947.6	1934.5	1909.2	1883.0	1879.3	1865.2	1832.5
17.5°	1984.1	1969.1	1978.5	1927.9	1925.1	1910.1	1880.2	1850.2	1838.1	1816.6	1775.4
20°	1967.2	1951.3	1956.0	1902.7	1894.2	1874.6	1840.0	1805.3	1786.6	1759.5	1708.9
22.5°	1940.1	1927.9	1932.6	1873.6	1856.8	1829.7	1792.2	1750.1	1724.8	1688.3	1634.1
25°	1913.9	1902.7	1903.6	1841.8	1821.2	1782.9	1737.9	1689.3	1657.5	1616.3	1553.6
27.5°	1889.6	1871.8	1872.7	1807.2	1780.1	1732.3	1678.0	1618.1	1581.6	1532.0	1460.9
30°	1861.5	1840.0	1830.6	1764.1	1726.7	1671.5	1605.0	1535.8	1486.2	1425.4	1353.3
32.5°	1823.1	1801.6	1783.8	1711.7	1666.8	1598.5	1518.0	1440.3	1377.6	1308.4	1233.5
35°	1780.1	1756.7	1735.1	1653.7	1599.4	1518.9	1426.3	1334.6	1265.3	1196.1	1122.1
37.5°	1727.6	1704.2	1679.9	1589.1	1527.4	1432.8	1328.0	1226.0	1153.9	1090.3	1014.5
40°	1659.3	1635.9	1608.8	1515.2	1445.0	1334.6	1217.6	1116.5	1050.1	985.5	912.5
42.5°	1576.0	1558.3	1526.4	1428.2	1345.8	1230.7	1108.1	1010.8	950.9	885.3	817.0
45°	1480.6	1462.8	1428.2	1326.2	1234.4	1119.3	999.5	913.4	853.5	789.0	723.4
47.5°	1367.3	1351.4	1309.3	1214.8	1123.1	1008.9	895.6	817.0	755.3	697.2	632.7
50°	1243.8	1221.3	1184.8	1093.1	1011.7	902.2	795.5	725.3	664.5	605.5	542.8
52.5°	1111.8	1080.9	1053.8	983.6	905.9	802.1	701.9	634.5	574.6	515.7	453.0
55°	982.7	950.9	927.5	870.4	800.2	701.9	608.3	543.7	483.9	424.9	365.0
57.5°	865.7	832.0	805.8	757.1	693.5	599.9	515.7	452.0	392.1	336.9	278.0
60°	760.9	720.6	686.0	640.1	583.1	497.9	423.0	363.1	305.1	250.8	197.5
62.5°	662.6	613.0	571.8	520.4	471.7	396.8	334.1	275.2	222.7	172.2	125.4
65°	553.1	510.1	463.3	408.0	365.0	302.3	249.9	196.5	146.9	103.9	66.4
67.5°	460.5	412.7	364.1	313.5	265.8	219.0	171.3	123.5	83.3	51.5	28.1
70°	377.2	315.4	271.4	225.5	185.3	143.2	102.9	65.5	37.4	20.6	16.8
72.5°	302.3	231.2	192.8	149.7	115.1	78.6	47.7	26.2	15.0	13.1	15.9
75°	199.3	158.2	117.9	87.0	58.0	33.7	17.8	11.2	11.2	12.2	15.9
77.5°	92.7	89.8	65.5	40.2	21.5	12.2	9.4	8.4	8.4	8.4	11.2
80°	27.1	25.3	22.5	14.0	8.4	6.6	6.6	5.6	4.7	5.6	4.7
82.5°	4.7	4.7	5.6	4.7	4.7	4.7	3.7	2.8	2.8	1.9	1.9
85°	2.8	2.8	2.8	2.8	2.8	2.8	1.9	1.9	1.9	1.9	1.9
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2	2011.2
2.5°	1987.8	1994.4	2001.9	1968.2	1975.7	1950.4	1955.1	1981.3	1954.1	1959.7	1956.9
5°	1972.8	1977.5	1981.3	1946.6	1953.2	1927.0	1929.8	1953.2	1927.0	1929.8	1927.9
6°	1965.4	1969.1	1972.8	1935.4	1942.0	1913.9	1916.7	1939.2	1912.0	1915.8	1912.0
7.5°	1944.8	1947.6	1947.6	1912.0	1918.6	1889.6	1888.6	1911.1	1883.9	1887.7	1881.1
10°	1898.9	1898.9	1895.2	1854.9	1857.7	1826.8	1825.0	1844.6	1817.5	1818.4	1810.0
12.5°	1855.9	1854.0	1844.6	1800.6	1799.7	1767.0	1759.5	1773.5	1743.6	1740.7	1730.5
15°	1807.2	1802.5	1787.5	1743.6	1737.0	1697.7	1686.5	1694.0	1657.5	1653.7	1641.5
17.5°	1746.4	1735.1	1713.6	1665.9	1650.9	1606.9	1587.3	1588.2	1548.9	1540.5	1524.6
20°	1670.6	1650.9	1620.0	1567.6	1544.2	1493.7	1467.5	1460.9	1416.0	1402.9	1383.2
22.5°	1586.3	1556.4	1515.2	1454.4	1425.4	1366.4	1336.4	1322.4	1274.7	1258.8	1238.2
25°	1496.5	1459.0	1407.6	1337.4	1299.0	1235.4	1202.6	1187.6	1140.8	1124.9	1105.3
27.5°	1398.2	1357.0	1298.1	1221.3	1175.5	1115.6	1081.9	1058.5	1021.1	1002.3	982.7
30°	1287.8	1244.7	1185.8	1110.0	1065.0	1006.1	967.7	945.2	904.1	886.3	866.6
32.5°	1175.5	1126.8	1062.2	998.6	956.5	898.5	860.1	841.4	804.9	774.9	755.3
35°	1052.9	1006.1	945.2	884.4	843.2	791.8	759.9	734.7	689.7	670.1	649.5
37.5°	949.9	899.4	842.3	778.7	735.6	684.1	653.2	623.3	597.1	567.1	545.6
40°	851.7	801.1	743.1	680.4	636.4	584.9	551.2	519.4	487.6	462.3	440.8
42.5°	758.1	707.5	649.5	585.9	540.9	488.5	453.9	417.4	390.3	358.4	336.9
45°	665.4	614.9	552.2	494.1	446.4	394.0	352.8	320.1	285.4	259.2	240.5
47.5°	574.6	520.4	467.9	403.4	353.8	305.1	261.1	230.2	200.3	172.2	155.4
50°	483.9	431.4	373.4	313.5	263.9	213.4	178.8	148.8	119.8	100.1	87.0
52.5°	395.9	342.5	285.4	226.5	179.7	140.4	108.6	85.2	65.5	50.5	43.1
55°	308.8	257.4	201.2	148.8	109.5	82.4	60.8	46.8	41.2	38.4	36.5
57.5°	225.5	175.0	129.2	87.0	62.7	48.7	43.1	41.2	37.4	33.7	29.0
60°	149.7	105.8	72.1	49.6	43.1	42.1	39.3	35.6	29.9	20.6	16.8
62.5°	85.2	54.3	39.3	40.2	42.1	39.3	32.8	21.5	15.0	13.1	13.1
65°	38.4	29.9	37.4	40.2	37.4	27.1	16.8	11.2	11.2	11.2	11.2
67.5°	21.5	31.8	38.4	34.6	24.3	13.1	9.4	9.4	8.4	8.4	8.4
70°	23.4	33.7	30.9	20.6	9.4	7.5	6.6	6.6	5.6	4.7	4.7
72.5°	26.2	27.1	16.8	6.6	5.6	4.7	3.7	3.7	3.7	3.7	3.7
75°	20.6	13.1	4.7	3.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	9.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	2.8	2.8	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.9
87.5°	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9
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-Y

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2011.2	2011.2	2011.2	2011.2
2.5°	1957.9	1956.9	1973.8	1979.4
5°	1927.9	1922.3	1939.2	1942.0
6°	1910.1	1906.4	1922.3	1924.2
7.5°	1880.2	1874.6	1892.4	1892.4
10°	1805.3	1800.6	1814.7	1817.5
12.5°	1724.8	1718.3	1730.5	1738.9
15°	1630.3	1622.8	1634.1	1640.6
17.5°	1507.7	1498.4	1507.7	1514.3
20°	1363.6	1350.5	1358.0	1361.7
22.5°	1217.6	1206.4	1211.0	1215.7
25°	1086.6	1075.3	1077.2	1080.9
27.5°	964.0	951.8	951.8	954.6
30°	849.8	832.9	835.7	837.6
32.5°	734.7	722.5	722.5	724.4
35°	633.6	616.7	616.7	617.7
37.5°	526.9	511.0	511.0	511.9
40°	423.0	407.1	405.2	406.2
42.5°	321.9	307.0	305.1	305.1
45°	225.5	218.1	214.3	214.3
47.5°	147.9	138.5	134.8	134.8
50°	78.6	72.1	72.1	72.1
52.5°	42.1	42.1	43.1	44.0
55°	35.6	35.6	36.5	36.5
57.5°	26.2	25.3	25.3	26.2
60°	16.8	17.8	18.7	18.7
62.5°	14.0	14.0	15.9	15.9
65°	11.2	12.2	13.1	13.1
67.5°	8.4	8.4	9.4	9.4
70°	4.7	4.7	5.6	5.6
72.5°	3.7	3.7	4.7	4.7
75°	2.8	2.8	3.7	3.7
77.5°	2.8	2.8	2.8	2.8
80°	1.9	1.9	1.9	1.9
82.5°	0.9	0.9	1.9	1.9
85°	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0

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