

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: STREETWORKS

Report Number: P226206

Luminaire Tested: **MLN-B3-D-U-T2-7030-XX**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29120)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MLN-B3-D-U-T2-7030-XX
Description: METROLINE ARCHITECTURAL LED LUMINAIRE
70 CRI, 3000K LEDS AND TYPE II DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9836 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3.75' x H: 0.17')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U1 - G2

Input Watts (W): 93.7
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: 28.75 FT

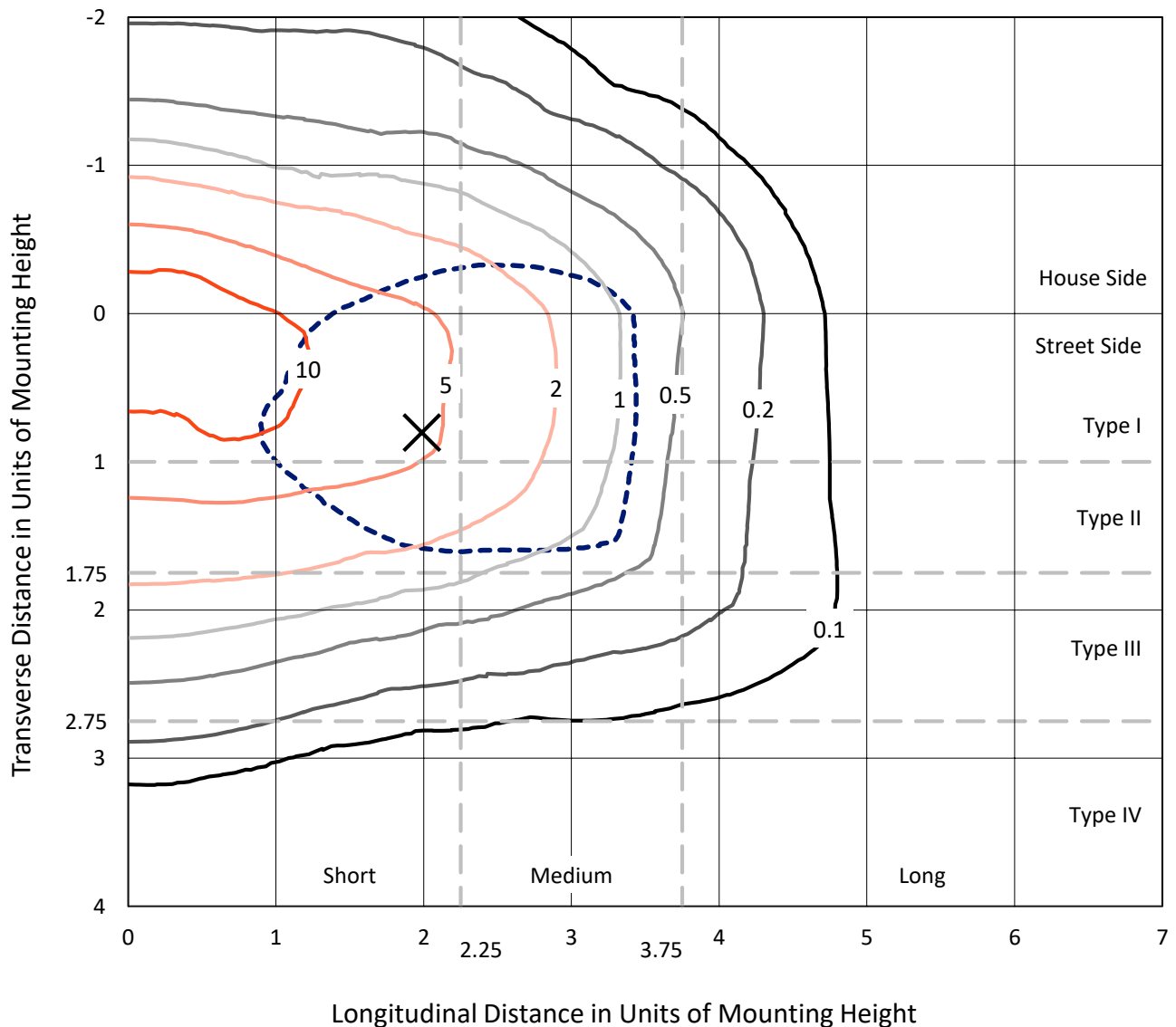


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

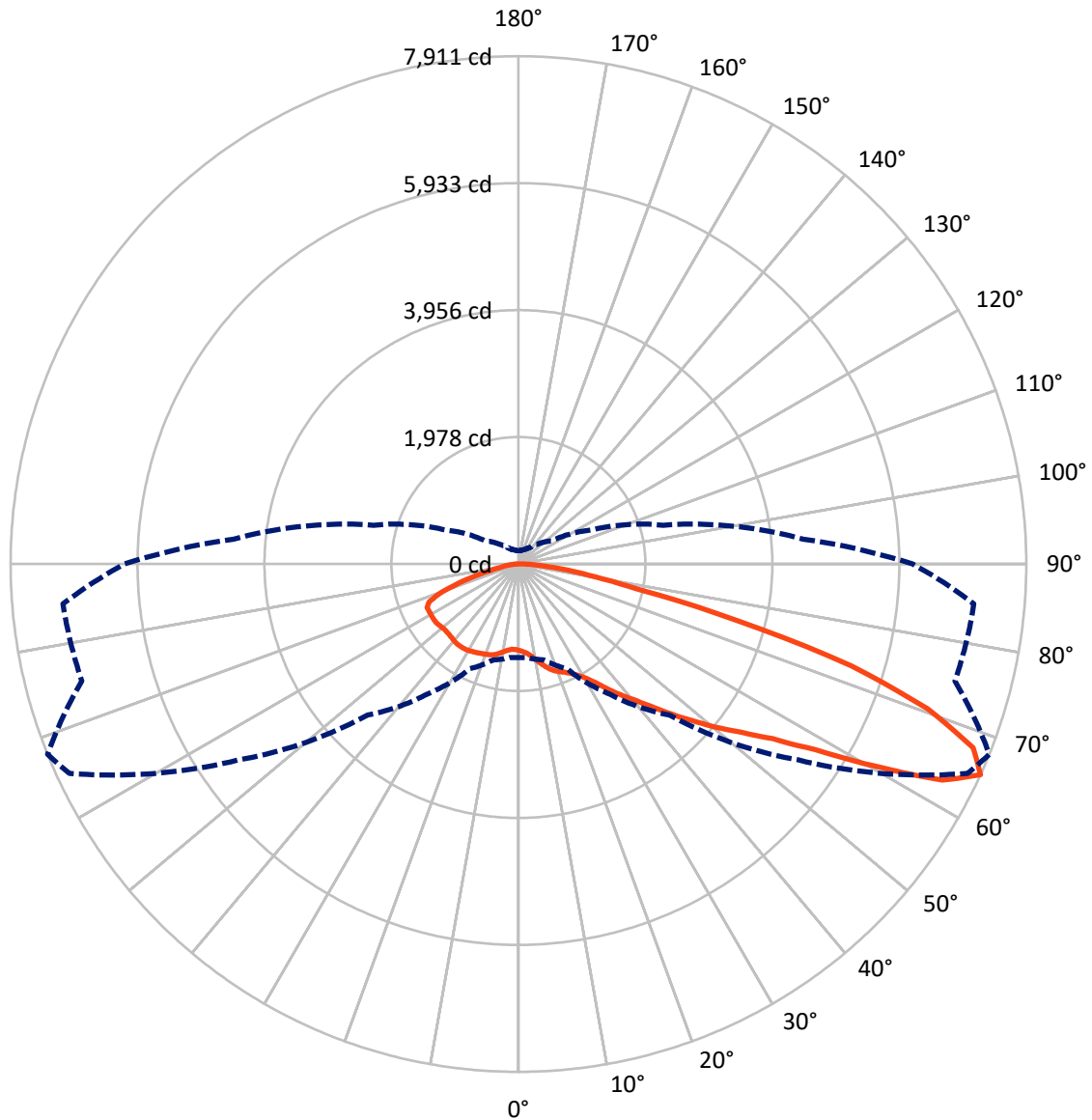


Based on 10 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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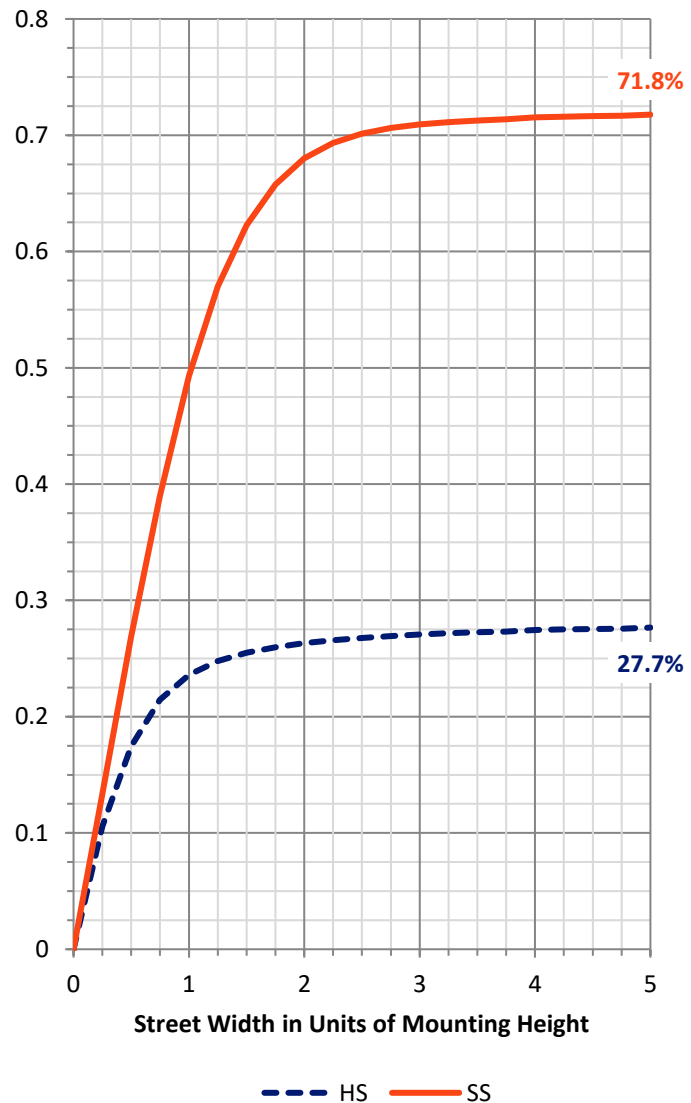
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2754.5	2.6	2757.1
	% Fixture	28.0	0.0	28.0
Street Side	Lumens	7075.9	3.0	7078.9
	% Fixture	71.9	0.0	72.0
Total	Lumens	9830.4	5.6	9836.0
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	1.3
10°-20°	429.9	4.4
20°-30°	730.6	7.4
30°-40°	1042.1	10.6
40°-50°	1530.1	15.6
50°-60°	2098.8	21.3
60°-70°	2541.3	25.8
70°-80°	1177.8	12.0
80°-90°	147.0	1.5
90°-100°	5.5	0.1
100°-110°	0.1	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°	9830.4	99.9
0°-180°	9836.0	100.0



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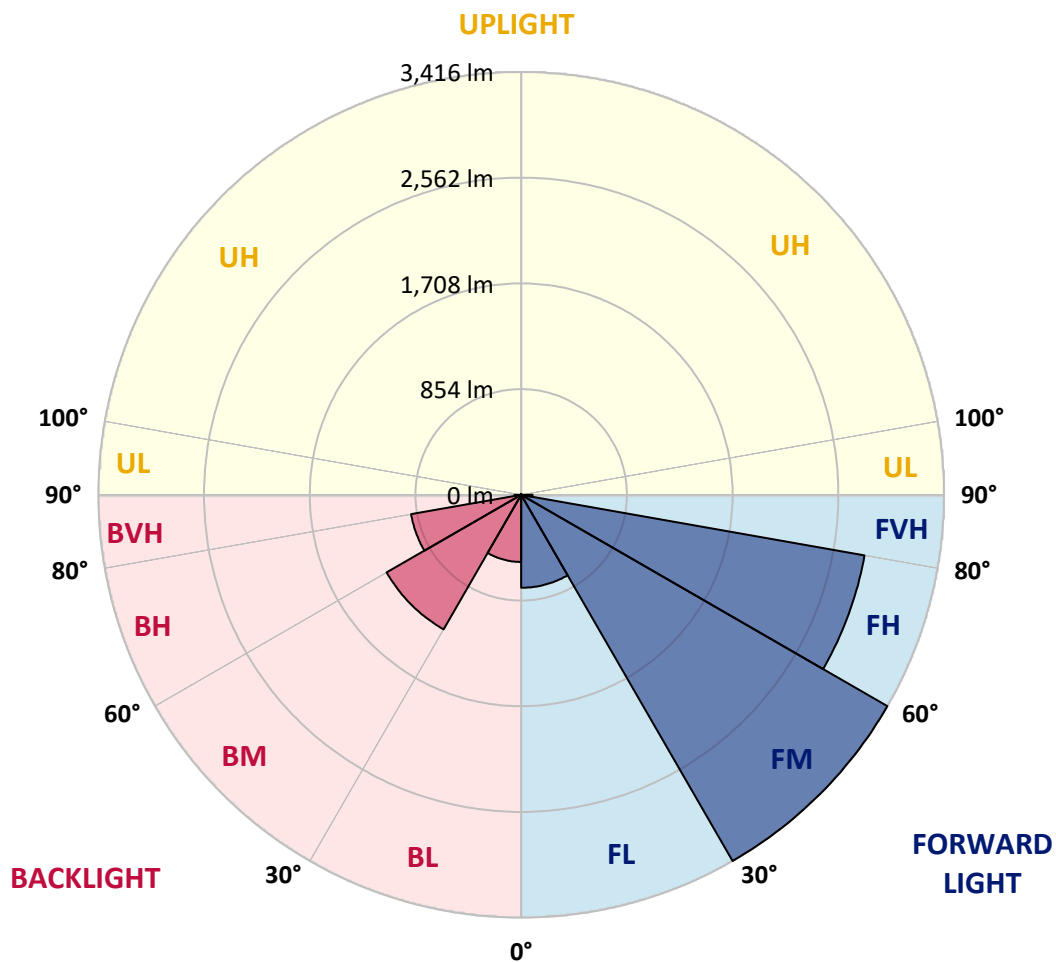
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	750.8	7.6			
FM	(30°-60°)	3416.0	34.7			
FH	(60°-80°)	2816.3	28.6			G2/5000
FVH	(80°-90°)	92.8	0.9			G1/100
BL	(0°-30°)	542.5	5.5	B2/1000		
BM	(30°-60°)	1255.0	12.8	B2/2500		
BH	(60°-80°)	902.8	9.2	B2/1000		G2/1000
BVH	(80°-90°)	54.2	0.6			G1/100
UL	(90°-100°)	5.5	0.1		U1/10	
UH	(100°-180°)	2.6	0.0		U1/10	

BUG Rating: B2-U1-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5
2.5°	1420.7	1410.1	1396.8	1395.1	1380.0	1381.8	1376.5	1368.5	1365.9	1356.1	1342.0
5°	1488.9	1474.7	1457.9	1452.6	1434.0	1434.0	1419.0	1403.0	1397.7	1385.3	1367.6
7.5°	1569.5	1557.1	1537.6	1528.7	1503.9	1499.5	1476.5	1456.1	1448.2	1434.0	1411.9
10°	1656.2	1646.5	1623.4	1615.5	1584.5	1578.3	1550.0	1526.1	1518.1	1498.6	1469.4
12.5°	1735.0	1724.4	1705.8	1695.1	1669.5	1662.4	1631.4	1604.9	1595.1	1573.0	1539.4
15°	1797.8	1785.4	1770.4	1766.0	1745.6	1746.5	1714.6	1684.5	1673.9	1648.2	1605.7
17.5°	1838.6	1827.9	1816.4	1816.4	1807.6	1818.2	1790.8	1750.0	1739.4	1705.8	1657.1
20°	1850.9	1844.7	1840.3	1852.7	1853.6	1878.4	1855.4	1804.0	1787.2	1748.3	1700.5
22.5°	1844.7	1841.2	1844.7	1862.5	1882.8	1937.7	1915.6	1850.9	1830.6	1787.2	1749.1
25°	1825.3	1822.6	1829.7	1858.0	1899.6	1987.3	1982.0	1909.4	1886.4	1839.4	1804.0
27.5°	1791.6	1794.3	1809.3	1839.4	1911.1	2037.7	2059.0	1989.0	1960.7	1904.9	1868.6
30°	1755.3	1759.8	1789.9	1835.0	1928.8	2101.5	2164.3	2090.8	2058.1	1996.1	1946.5
32.5°	1714.6	1721.7	1769.5	1838.6	1971.3	2189.1	2300.6	2235.1	2203.3	2124.5	2051.9
35°	1681.0	1689.0	1755.3	1864.2	2040.4	2300.6	2483.9	2425.4	2386.5	2298.0	2179.4
37.5°	1702.2	1712.0	1787.2	1935.0	2152.8	2437.8	2656.5	2623.7	2583.0	2491.8	2336.9
40°	1798.7	1812.0	1904.1	2094.4	2348.4	2632.6	2844.1	2816.7	2783.1	2719.3	2541.4
42.5°	1899.6	1912.9	2029.8	2289.1	2630.8	2927.3	3083.1	3047.7	3031.8	2994.6	2805.2
45°	1960.7	1982.8	2113.0	2442.3	2894.6	3266.4	3400.0	3311.5	3330.1	3339.8	3123.0
47.5°	2002.3	2023.6	2158.1	2553.8	3092.9	3554.1	3769.2	3600.1	3647.0	3680.6	3436.3
50°	2028.0	2049.2	2187.3	2621.1	3210.6	3738.2	4123.2	3937.3	3997.5	4003.7	3740.8
52.5°	2029.8	2050.1	2181.1	2622.8	3233.6	3845.3	4392.3	4322.4	4357.8	4331.3	4087.8
55°	1980.2	1998.8	2128.0	2541.4	3145.1	3871.0	4641.1	4794.2	4798.6	4763.2	4574.7
57.5°	1906.7	1920.9	2041.3	2424.6	3017.6	3840.0	4896.9	5479.4	5453.7	5421.8	5343.0
60°	1859.8	1868.6	1974.9	2329.8	2926.5	3736.4	5200.5	6426.5	6400.8	6231.8	6338.9
62.5°	1740.3	1746.5	1855.4	2189.1	2843.2	3574.4	5366.9	7380.8	7412.6	6831.9	6967.4
65°	1457.9	1460.6	1547.3	1801.4	2470.6	3325.7	5321.8	7718.9	7911.0	7040.0	7122.3
67.5°	1061.3	1058.7	1105.6	1263.2	1772.2	2861.8	5010.2	7235.6	7637.5	7180.7	6979.8
70°	688.7	689.6	716.1	786.9	1057.8	2010.3	4043.6	6358.4	6763.8	6950.6	6349.5
72.5°	360.3	371.8	362.9	397.5	597.5	1149.9	2633.5	5242.1	5424.5	5613.0	4942.9
75°	180.6	187.7	198.3	213.3	302.7	675.4	1540.2	3673.6	3516.0	3091.1	2828.2
77.5°	133.7	139.0	150.5	159.3	189.4	386.8	1070.2	2071.4	1902.3	1498.6	1348.2
80°	94.7	100.9	120.4	129.2	140.7	186.8	694.0	1188.8	1201.2	908.2	447.9
82.5°	53.1	64.6	87.6	100.0	101.8	117.7	281.5	744.4	773.7	499.3	162.0
85°	26.6	39.8	62.8	75.2	68.2	73.5	139.0	357.6	382.4	280.6	88.5
87.5°	1.8	23.9	43.4	51.3	46.9	46.9	65.5	162.0	167.3	146.9	50.5
90°	0.0	14.2	26.6	31.0	26.6	23.0	26.6	52.2	56.7	43.4	10.6
92.5°	0.0	5.3	12.4	11.5	8.9	5.3	4.4	2.7	1.8	0.9	0.9
95°	0.0	0.9	2.7	1.8	1.8	0.9	0.9	0.9	0.9	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.0	0.9
100°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.9
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5
2.5°	1341.1	1338.4	1334.0	1329.6	1326.9	1322.5	1309.2	1303.9	1307.4	1322.5	1325.1
5°	1365.0	1359.7	1342.8	1328.7	1318.1	1307.4	1286.2	1276.5	1273.8	1286.2	1290.6
7.5°	1403.9	1396.8	1370.3	1344.6	1321.6	1300.4	1267.6	1249.0	1241.9	1250.8	1254.3
10°	1461.5	1447.3	1410.1	1370.3	1334.0	1298.6	1251.7	1221.6	1207.4	1212.7	1214.5
12.5°	1525.2	1508.4	1458.8	1403.9	1351.7	1300.4	1235.7	1193.2	1172.9	1173.8	1174.7
15°	1588.9	1565.9	1504.8	1436.7	1368.5	1302.1	1221.6	1166.7	1135.7	1133.9	1133.9
17.5°	1635.8	1610.2	1535.8	1456.1	1379.1	1300.4	1205.6	1138.4	1103.0	1095.0	1095.0
20°	1679.2	1649.1	1557.1	1465.0	1377.4	1293.3	1185.3	1108.3	1063.1	1051.6	1053.4
22.5°	1725.2	1687.2	1577.4	1473.9	1372.1	1280.9	1162.3	1068.4	1014.4	1001.2	1002.0
25°	1775.7	1728.8	1600.4	1486.2	1371.2	1261.4	1120.7	1012.7	956.9	943.6	944.5
27.5°	1835.0	1771.3	1621.7	1498.6	1363.2	1224.2	1057.8	951.6	894.9	882.5	882.5
30°	1905.8	1820.0	1650.0	1508.4	1337.5	1164.9	994.1	890.5	833.0	818.8	816.2
32.5°	1989.9	1882.8	1690.7	1509.3	1291.5	1091.4	930.3	831.2	773.7	756.0	755.1
35°	2098.8	1964.2	1741.2	1495.1	1231.3	1024.2	877.2	772.8	714.4	698.4	697.5
37.5°	2230.7	2078.4	1800.5	1469.4	1171.1	966.6	817.0	713.5	649.7	630.3	629.4
40°	2414.8	2226.3	1850.9	1437.6	1117.1	913.5	755.1	643.5	578.9	560.3	557.7
42.5°	2633.5	2388.3	1882.8	1406.6	1076.4	851.6	679.8	569.2	510.8	500.1	497.5
45°	2867.1	2551.1	1902.3	1383.6	1040.1	777.2	594.9	503.7	456.8	446.1	443.5
47.5°	3099.1	2695.4	1918.2	1373.8	994.1	685.1	524.0	453.2	412.5	402.8	400.1
50°	3339.8	2822.9	1938.6	1372.1	927.7	595.7	466.5	409.8	371.8	359.4	355.8
52.5°	3618.7	2967.2	1974.9	1377.4	833.0	532.9	426.7	366.5	328.4	314.2	310.7
55°	3991.3	3163.7	2019.1	1381.8	726.7	494.8	393.0	324.0	285.9	271.8	268.2
57.5°	4553.4	3446.1	2067.8	1364.1	650.6	472.7	358.5	285.0	253.2	241.7	240.8
60°	5293.5	3822.3	2135.1	1333.1	612.6	456.8	329.3	259.4	236.3	224.8	223.1
62.5°	5866.2	4182.5	2229.8	1292.4	607.2	445.3	312.5	250.5	227.5	213.3	212.4
65°	6138.8	4453.4	2336.9	1251.7	626.7	444.4	312.5	251.4	224.8	208.9	206.3
67.5°	6114.9	4500.3	2301.5	1172.0	624.9	447.9	323.1	254.9	227.5	208.0	205.4
70°	5681.2	4241.0	2067.8	984.3	562.1	417.8	319.6	256.7	229.3	205.4	200.9
72.5°	4677.4	3635.5	1683.6	718.8	465.6	356.7	293.9	250.5	222.2	198.3	193.9
75°	3005.2	2577.7	1204.8	485.1	363.8	296.5	258.5	232.8	203.6	183.2	180.6
77.5°	1319.8	1147.2	637.3	347.0	287.7	238.1	213.3	198.3	179.7	154.0	146.9
80°	357.6	301.0	266.4	284.1	223.1	187.7	170.8	162.9	150.5	116.8	108.9
82.5°	143.4	139.0	170.0	218.6	159.3	131.9	130.1	124.8	121.3	85.0	77.0
85°	81.4	83.2	106.2	136.3	93.8	79.7	84.1	88.5	90.3	58.4	54.0
87.5°	41.6	44.3	67.3	65.5	54.0	40.7	46.9	54.0	55.8	31.0	22.1
90°	5.3	8.0	26.6	28.3	22.1	15.9	21.2	24.8	28.3	15.0	2.7
92.5°	0.9	0.9	1.8	5.3	6.2	4.4	6.2	8.9	10.6	5.3	0.0
95°	0.9	0.9	0.9	0.9	1.8	1.8	1.8	2.7	3.5	0.9	0.0
97.5°	0.9	0.9	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0
100°	0.9	0.9	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226206

CATALOG NUMBER: MLN-B3-D-U-T2-7030-XX

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)