

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: P226207

Luminaire Tested: **MLN-B2-D-U-T2-7030-XX**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226207
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-B2-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: 7628 lumens
Efficiency: N/A
Efficacy: 107.4 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): 71
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

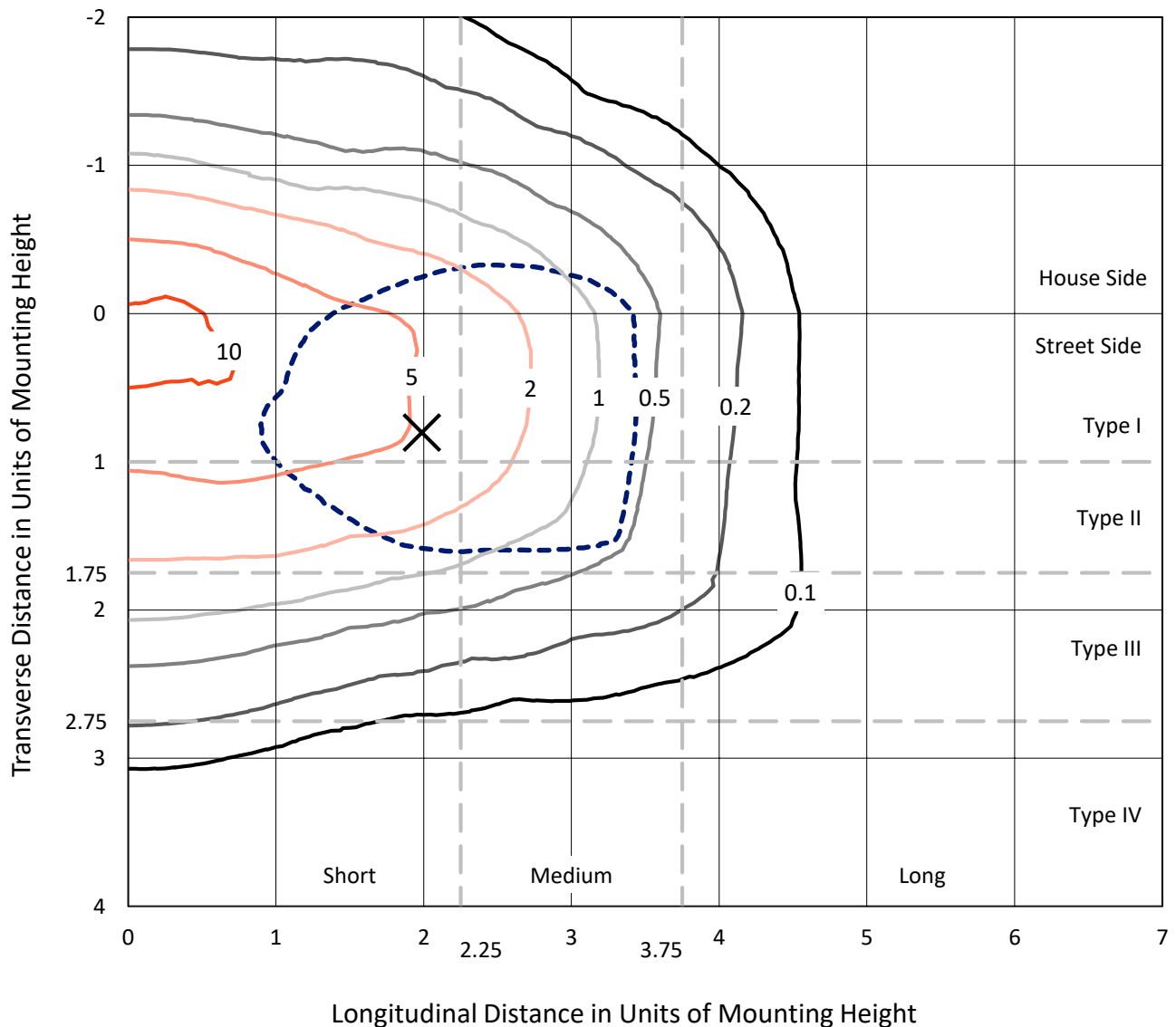


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

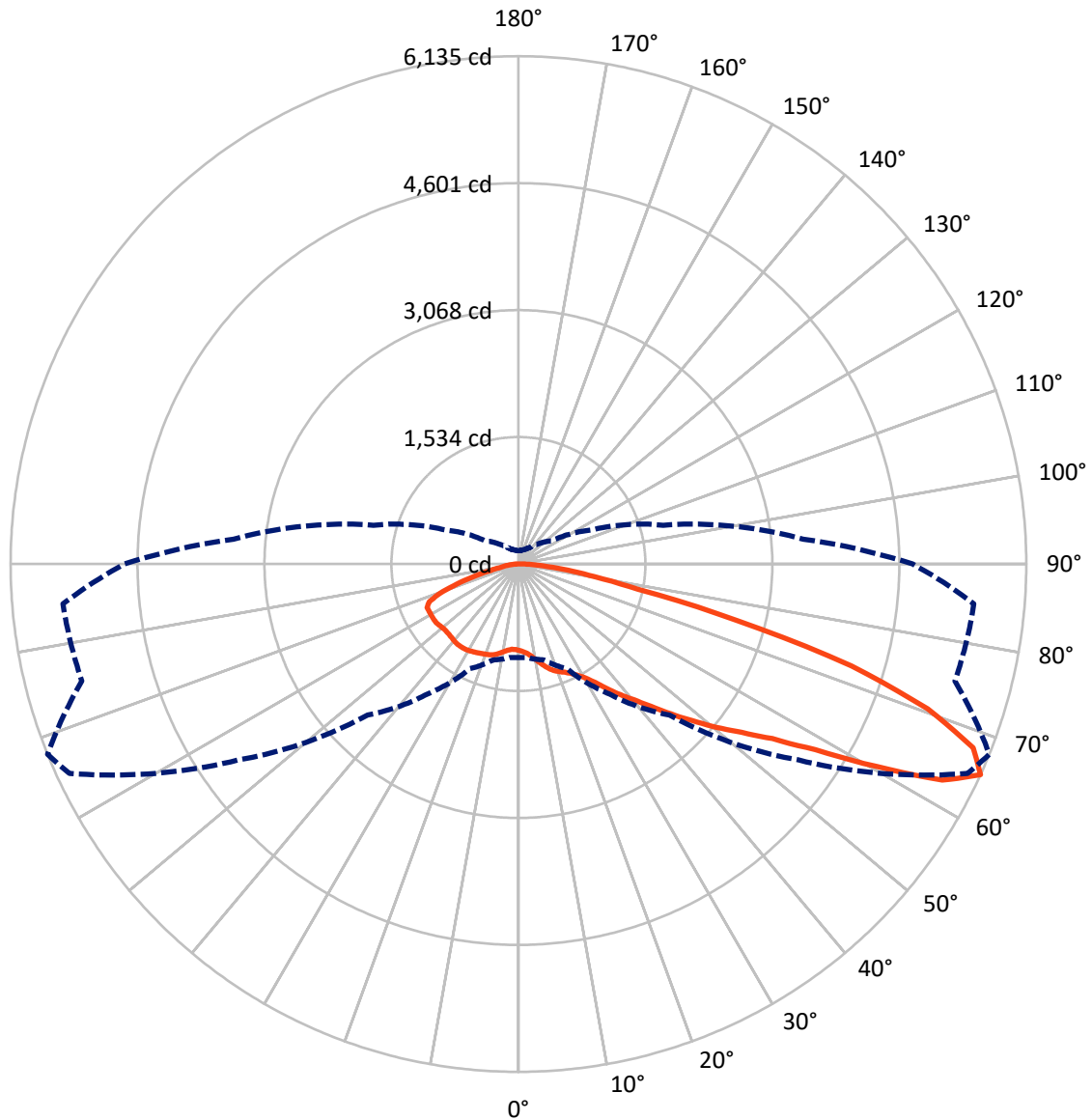


Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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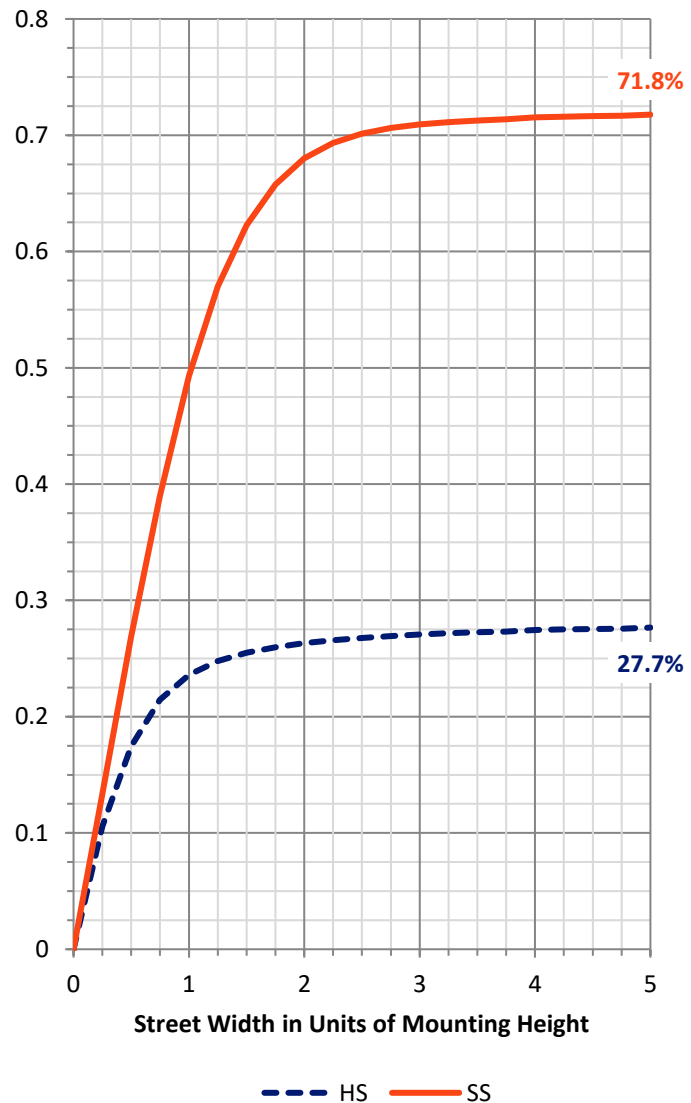
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2136.2	2.0	2138.2
	% Fixture	28.0	0.0	28.0
Street Side	Lumens	5487.5	2.3	5489.8
	% Fixture	71.9	0.0	72.0
Total	Lumens	7623.7	4.3	7628.0
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	1.3
10°-20°	333.4	4.4
20°-30°	566.6	7.4
30°-40°	808.1	10.6
40°-50°	1186.6	15.6
50°-60°	1627.7	21.3
60°-70°	1970.9	25.8
70°-80°	913.4	12.0
80°-90°	114.0	1.5
90°-100°	4.3	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°	7623.7	99.9
0°-180°	7628.0	100.0



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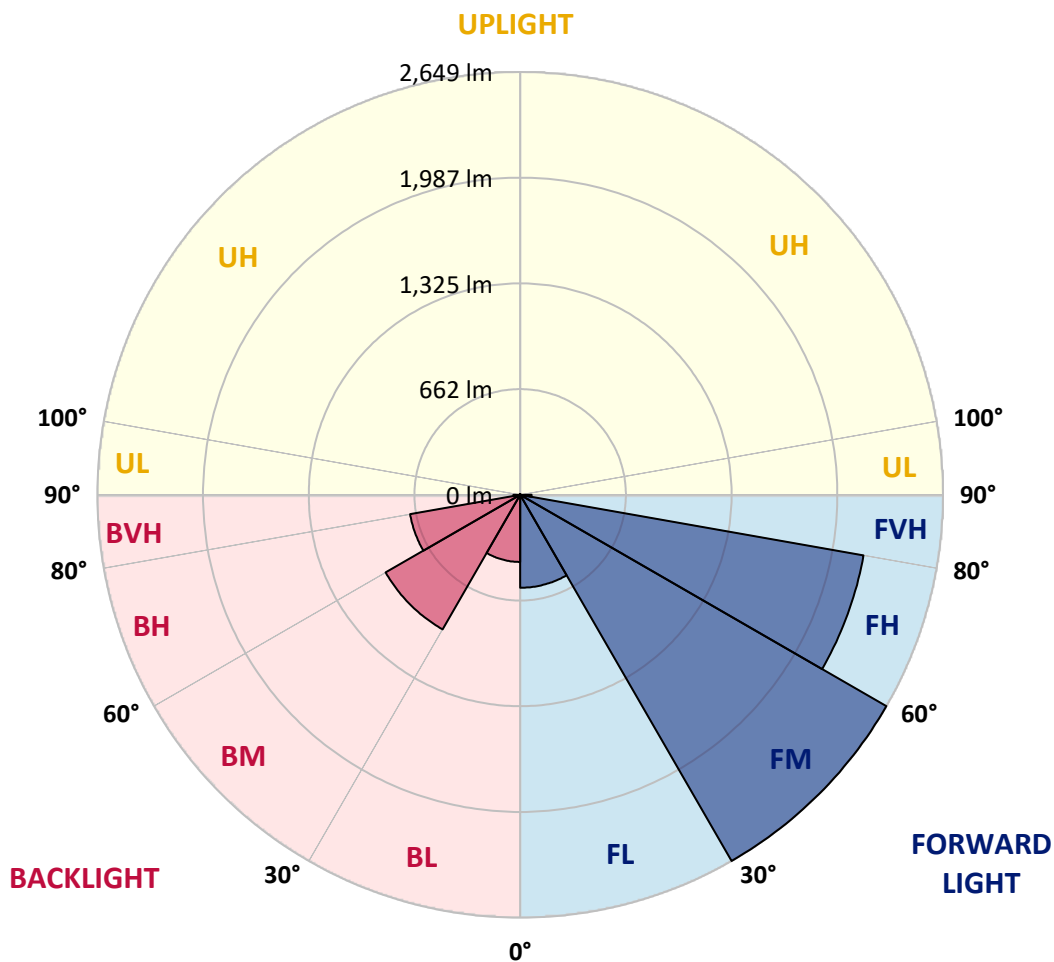
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	582.3	7.6			
FM	(30°-60°)	2649.2	34.7			
FH	(60°-80°)	2184.1	28.6			G2/5000
FVH	(80°-90°)	71.9	0.9			G1/100
BL	(0°-30°)	420.7	5.5	B1/500		
BM	(30°-60°)	973.3	12.8	B1/1000		
BH	(60°-80°)	700.2	9.2	B2/1000		G2/1000
BVH	(80°-90°)	42.0	0.6			G1/100
UL	(90°-100°)	4.3	0.1		U1/10	
UH	(100°-180°)	2.0	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°	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5
2.5°	1101.8	1093.6	1083.3	1081.9	1070.2	1071.6	1067.5	1061.3	1059.2	1051.7	1040.7
5°	1154.7	1143.7	1130.6	1126.5	1112.1	1112.1	1100.4	1088.1	1084.0	1074.3	1060.6
7.5°	1217.1	1207.5	1192.4	1185.6	1166.3	1162.9	1145.1	1129.3	1123.1	1112.1	1094.9
10°	1284.4	1276.9	1259.0	1252.8	1228.8	1224.0	1202.0	1183.5	1177.3	1162.2	1139.6
12.5°	1345.5	1337.3	1322.9	1314.6	1294.7	1289.2	1265.2	1244.6	1237.0	1219.9	1193.8
15°	1394.3	1384.6	1373.0	1369.5	1353.7	1354.4	1329.7	1306.4	1298.1	1278.2	1245.3
17.5°	1425.8	1417.6	1408.7	1408.7	1401.8	1410.0	1388.8	1357.2	1348.9	1322.9	1285.1
20°	1435.4	1430.6	1427.2	1436.8	1437.5	1456.7	1438.9	1399.1	1386.0	1355.8	1318.7
22.5°	1430.6	1427.9	1430.6	1444.4	1460.2	1502.7	1485.6	1435.4	1419.7	1386.0	1356.5
25°	1415.5	1413.5	1419.0	1440.9	1473.2	1541.2	1537.0	1480.7	1462.9	1426.5	1399.1
27.5°	1389.4	1391.5	1403.2	1426.5	1482.1	1580.3	1596.8	1542.5	1520.6	1477.3	1449.2
30°	1361.3	1364.7	1388.1	1423.1	1495.9	1629.7	1678.5	1621.5	1596.1	1548.0	1509.6
32.5°	1329.7	1335.2	1372.3	1425.8	1528.8	1697.7	1784.2	1733.4	1708.7	1647.6	1591.3
35°	1303.6	1309.8	1361.3	1445.7	1582.3	1784.2	1926.3	1881.0	1850.8	1782.1	1690.1
37.5°	1320.1	1327.7	1386.0	1500.7	1669.5	1890.6	2060.1	2034.7	2003.2	1932.5	1812.3
40°	1394.9	1405.2	1476.6	1624.2	1821.2	2041.6	2205.7	2184.4	2158.3	2108.9	1970.9
42.5°	1473.2	1483.5	1574.1	1775.3	2040.2	2270.2	2391.0	2363.6	2351.2	2322.4	2175.5
45°	1520.6	1537.7	1638.6	1894.0	2244.8	2533.1	2636.8	2568.1	2582.6	2590.1	2421.9
47.5°	1552.8	1569.3	1673.7	1980.5	2398.6	2756.2	2923.1	2791.9	2828.3	2854.4	2664.9
50°	1572.7	1589.2	1696.3	2032.7	2489.9	2899.0	3197.6	3053.5	3100.2	3105.0	2901.1
52.5°	1574.1	1589.9	1691.5	2034.1	2507.7	2982.1	3406.3	3352.1	3379.6	3359.0	3170.2
55°	1535.7	1550.1	1650.3	1970.9	2439.1	3002.0	3599.2	3718.0	3721.4	3694.0	3547.8
57.5°	1478.7	1489.7	1583.0	1880.3	2340.2	2978.0	3797.6	4249.3	4229.4	4204.7	4143.6
60°	1442.3	1449.2	1531.5	1806.8	2269.5	2897.7	4033.1	4983.9	4964.0	4832.9	4915.9
62.5°	1349.6	1354.4	1438.9	1697.7	2205.0	2772.0	4162.2	5723.9	5748.6	5298.3	5403.3
65°	1130.6	1132.7	1200.0	1397.0	1916.0	2579.1	4127.2	5986.2	6135.1	5459.6	5523.5
67.5°	823.1	821.0	857.4	979.6	1374.3	2219.4	3885.5	5611.3	5923.0	5568.8	5412.9
70°	534.1	534.8	555.4	610.3	820.4	1559.0	3135.9	4931.0	5245.4	5390.3	4924.2
72.5°	279.4	288.3	281.5	308.2	463.4	891.7	2042.3	4065.4	4206.8	4353.0	3833.3
75°	140.0	145.5	153.8	165.4	234.8	523.8	1194.5	2848.9	2726.7	2397.2	2193.3
77.5°	103.7	107.8	116.7	123.6	146.9	300.0	830.0	1606.4	1475.3	1162.2	1045.5
80°	73.5	78.3	93.4	100.2	109.2	144.8	538.2	922.0	931.6	704.3	347.4
82.5°	41.2	50.1	68.0	77.6	78.9	91.3	218.3	577.3	600.0	387.2	125.6
85°	20.6	30.9	48.7	58.4	52.9	57.0	107.8	277.3	296.6	217.6	68.6
87.5°	1.4	18.5	33.6	39.8	36.4	36.4	50.8	125.6	129.7	114.0	39.1
90°	0.0	11.0	20.6	24.0	20.6	17.8	20.6	40.5	43.9	33.6	8.2
92.5°	0.0	4.1	9.6	8.9	6.9	4.1	3.4	2.1	1.4	0.7	0.7
95°	0.0	0.7	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.0	0.7
100°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.0	0.0	0.7
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°	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5
2.5°	1040.0	1038.0	1034.5	1031.1	1029.0	1025.6	1015.3	1011.2	1013.9	1025.6	1027.7
5°	1058.6	1054.4	1041.4	1030.4	1022.2	1013.9	997.5	989.9	987.9	997.5	1000.9
7.5°	1088.8	1083.3	1062.7	1042.8	1024.9	1008.4	983.0	968.6	963.1	970.0	972.8
10°	1133.4	1122.4	1093.6	1062.7	1034.5	1007.1	970.7	947.4	936.4	940.5	941.9
12.5°	1182.8	1169.8	1131.3	1088.8	1048.3	1008.4	958.3	925.4	909.6	910.3	911.0
15°	1232.2	1214.4	1167.0	1114.2	1061.3	1009.8	947.4	904.8	880.8	879.4	879.4
17.5°	1268.6	1248.7	1191.1	1129.3	1069.5	1008.4	935.0	882.8	855.4	849.2	849.2
20°	1302.3	1278.9	1207.5	1136.1	1068.2	1003.0	919.2	859.5	824.5	815.5	816.9
22.5°	1338.0	1308.4	1223.3	1143.0	1064.1	993.3	901.4	828.6	786.7	776.4	777.1
25°	1377.1	1340.7	1241.2	1152.6	1063.4	978.2	869.1	785.3	742.1	731.8	732.5
27.5°	1423.1	1373.7	1257.6	1162.2	1057.2	949.4	820.4	738.0	694.0	684.4	684.4
30°	1478.0	1411.4	1279.6	1169.8	1037.3	903.4	770.9	690.6	646.0	635.0	632.9
32.5°	1543.2	1460.2	1311.2	1170.5	1001.6	846.4	721.5	644.6	600.0	586.3	585.6
35°	1627.7	1523.3	1350.3	1159.5	954.9	794.3	680.3	599.3	554.0	541.6	541.0
37.5°	1729.9	1611.9	1396.3	1139.6	908.2	749.6	633.6	553.3	503.9	488.8	488.1
40°	1872.7	1726.5	1435.4	1114.9	866.3	708.5	585.6	499.1	449.0	434.5	432.5
42.5°	2042.3	1852.1	1460.2	1090.8	834.8	660.4	527.2	441.4	396.1	387.9	385.8
45°	2223.5	1978.5	1475.3	1073.0	806.6	602.7	461.3	390.6	354.2	346.0	343.9
47.5°	2403.4	2090.3	1487.6	1065.4	770.9	531.3	406.4	351.5	319.9	312.4	310.3
50°	2590.1	2189.2	1503.4	1064.1	719.4	462.0	361.8	317.8	288.3	278.7	276.0
52.5°	2806.4	2301.1	1531.5	1068.2	646.0	413.3	330.9	284.2	254.7	243.7	241.0
55°	3095.4	2453.5	1565.9	1071.6	563.6	383.7	304.8	251.3	221.7	210.8	208.0
57.5°	3531.3	2672.5	1603.6	1057.9	504.6	366.6	278.0	221.0	196.3	187.4	186.7
60°	4105.2	2964.2	1655.8	1033.8	475.0	354.2	255.4	201.1	183.3	174.4	173.0
62.5°	4549.3	3243.6	1729.3	1002.3	470.9	345.3	242.3	194.3	176.4	165.4	164.8
65°	4760.8	3453.7	1812.3	970.7	486.0	344.6	242.3	195.0	174.4	162.0	160.0
67.5°	4742.2	3490.1	1784.9	908.9	484.7	347.4	250.6	197.7	176.4	161.3	159.3
70°	4405.9	3289.0	1603.6	763.4	435.9	324.0	247.8	199.1	177.8	159.3	155.8
72.5°	3627.4	2819.4	1305.7	557.4	361.1	276.7	227.9	194.3	172.3	153.8	150.3
75°	2330.6	1999.0	934.3	376.2	282.1	230.0	200.5	180.5	157.9	142.1	140.0
77.5°	1023.5	889.7	494.3	269.1	223.1	184.7	165.4	153.8	139.4	119.4	114.0
80°	277.3	233.4	206.6	220.4	173.0	145.5	132.5	126.3	116.7	90.6	84.4
82.5°	111.2	107.8	131.8	169.6	123.6	102.3	100.9	96.8	94.0	65.9	59.7
85°	63.2	64.5	82.4	105.7	72.8	61.8	65.2	68.6	70.0	45.3	41.9
87.5°	32.3	34.3	52.2	50.8	41.9	31.6	36.4	41.9	43.2	24.0	17.2
90°	4.1	6.2	20.6	22.0	17.2	12.4	16.5	19.2	22.0	11.7	2.1
92.5°	0.7	0.7	1.4	4.1	4.8	3.4	4.8	6.9	8.2	4.1	0.0
95°	0.7	0.7	0.7	0.7	1.4	1.4	1.4	2.1	2.7	0.7	0.0
97.5°	0.7	0.7	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0
100°	0.7	0.7	1.4	1.4	1.4	0.7	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: P226207

CATALOG NUMBER: MLN-B2-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)