

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: P226204

Luminaire Tested: **MLN-B2-D-U-T2-8030-XX**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226204  
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-T2-8030-XX  
Description: METROLINE ARCHITECTURAL LED LUMINAIRE  
80 CRI, 3000K LEDS AND TYPE II DISTRIBUTION  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7032 lumens  
Efficiency: N/A  
Efficacy: 99.0 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): 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

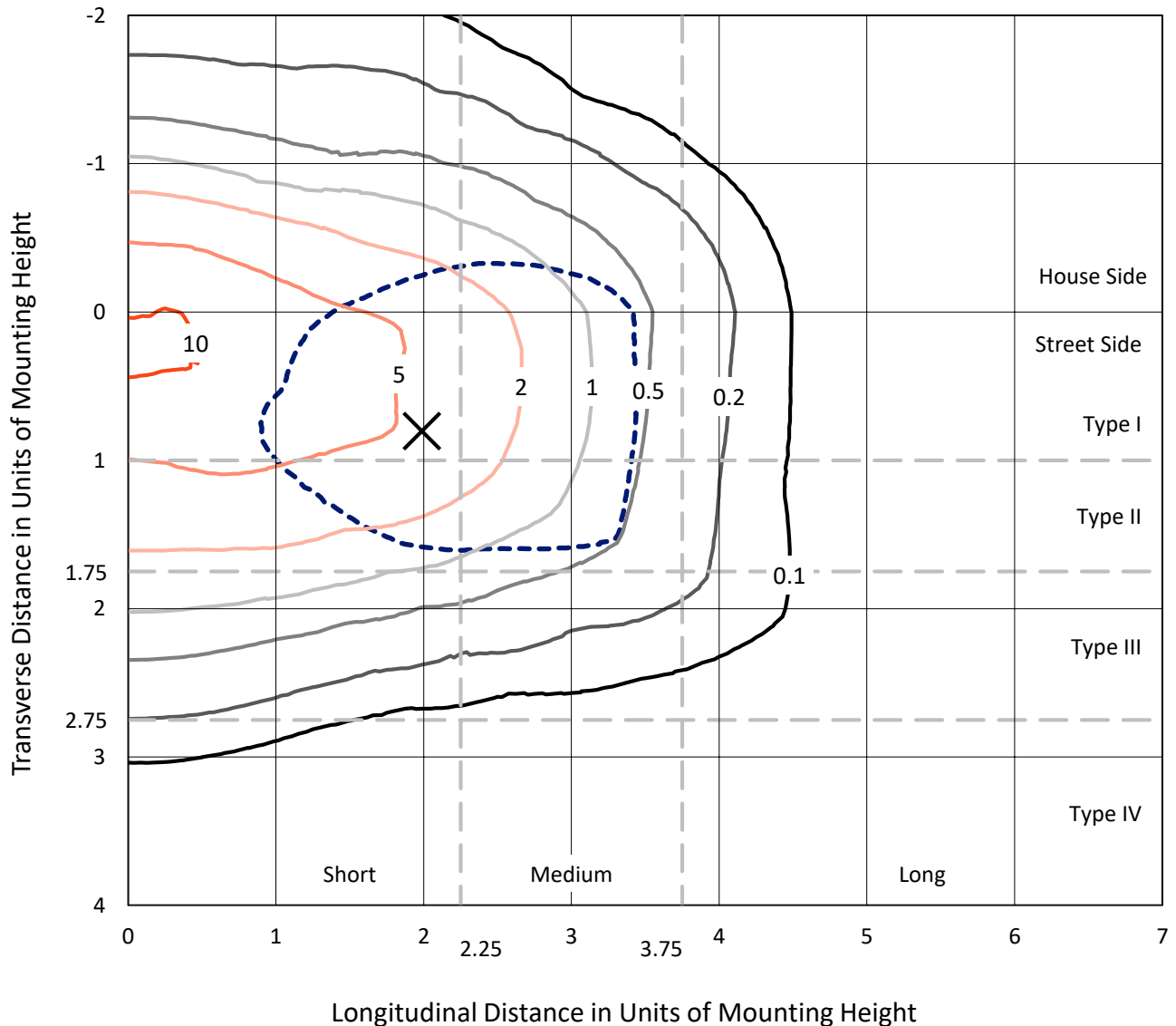


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

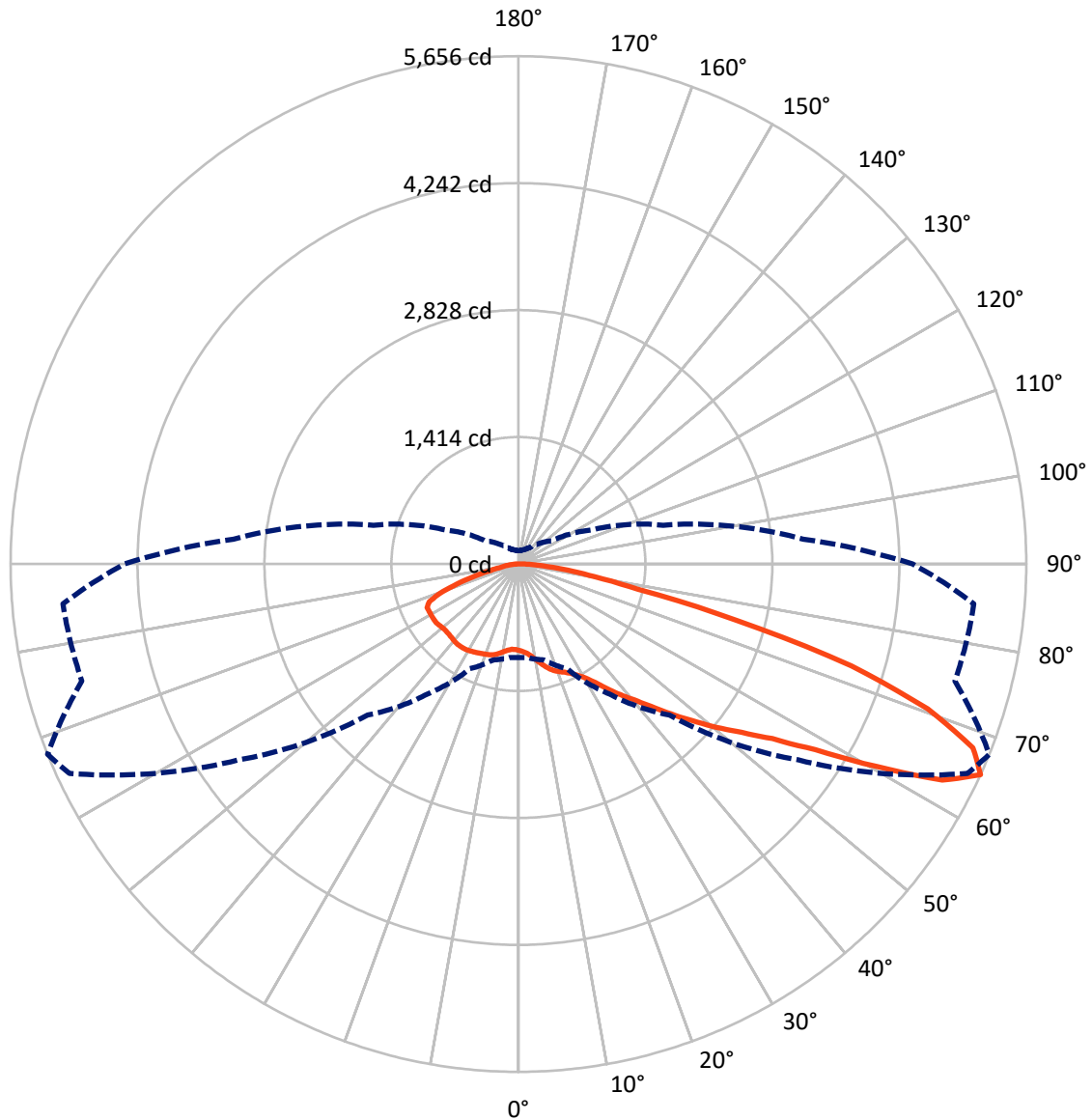


Based on 10 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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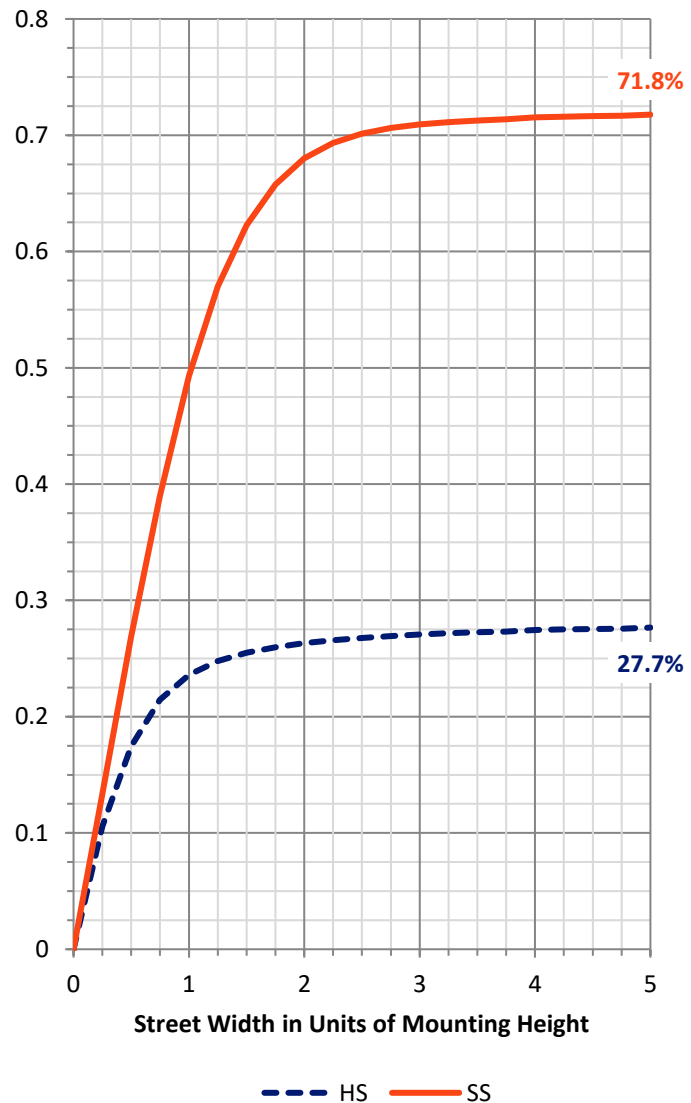
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1969.3	1.9	1971.1
	% Fixture	28.0	0.0	28.0
<b>Street Side</b>	Lumens	5058.8	2.1	5060.9
	% Fixture	71.9	0.0	72.0
<b>Total</b>	Lumens	7028.0	4.0	7032.0
	% Fixture	99.9	0.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.9	1.3
10°-20°	307.4	4.4
20°-30°	522.3	7.4
30°-40°	745.0	10.6
40°-50°	1093.9	15.6
50°-60°	1500.5	21.3
60°-70°	1816.9	25.8
70°-80°	842.0	12.0
80°-90°	105.1	1.5
90°-100°	3.9	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°	7028.0	99.9
0°-180°	7032.0	100.0



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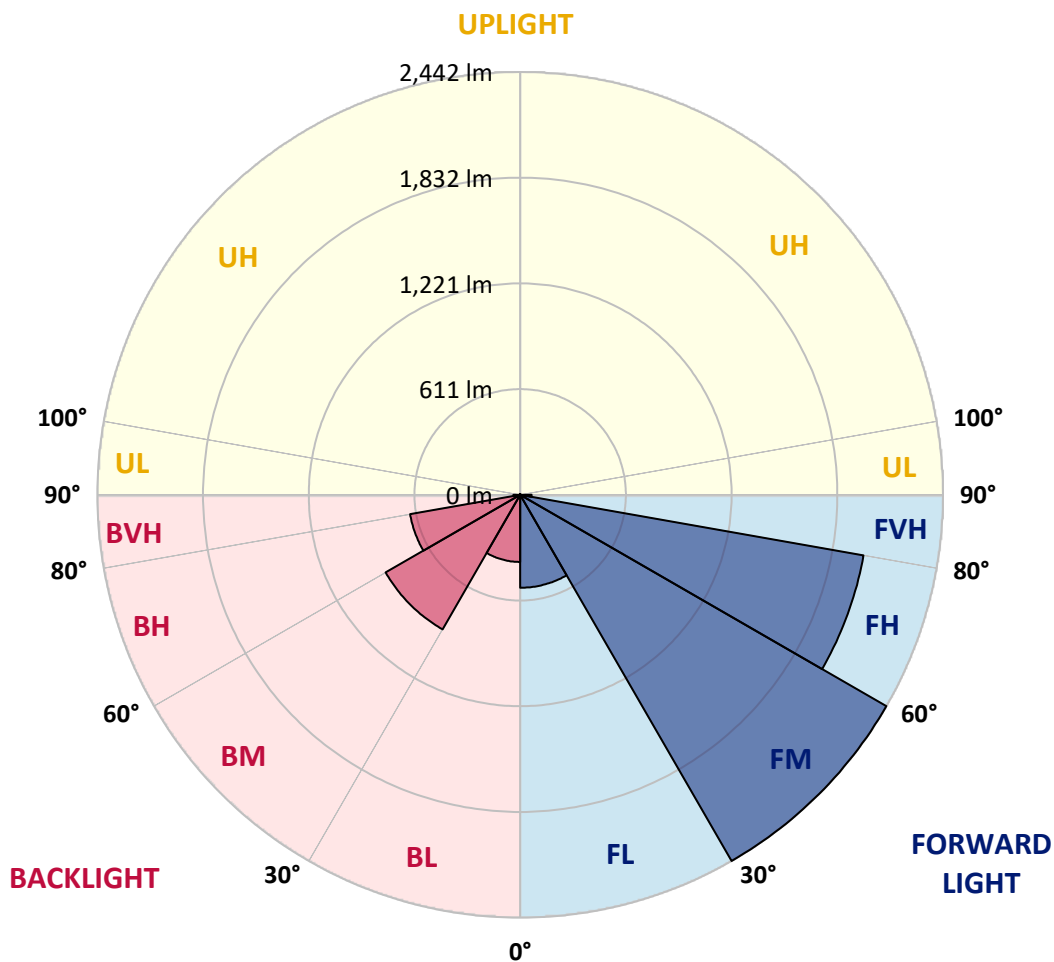
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	536.8	7.6			
FM (30°-60°)	2442.2	34.7			
FH (60°-80°)	2013.5	28.6			G2/5000
FVH (80°-90°)	66.3	0.9			G1/100
BL (0°-30°)	387.9	5.5	B1/500		
BM (30°-60°)	897.2	12.8	B1/1000		
BH (60°-80°)	645.4	9.2	B2/1000		G2/1000
BVH (80°-90°)	38.8	0.6			G1/100
UL (90°-100°)	3.9	0.1		U1/10	
UH (100°-180°)	1.9	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°	961.9	961.9	961.9	961.9	961.9	961.9	961.9	961.9	961.9	961.9	961.9
2.5°	1015.7	1008.1	998.6	997.4	986.6	987.9	984.1	978.4	976.5	969.5	959.4
5°	1064.5	1054.3	1042.3	1038.5	1025.2	1025.2	1014.5	1003.1	999.3	990.4	977.8
7.5°	1122.0	1113.2	1099.3	1092.9	1075.2	1072.0	1055.6	1041.0	1035.3	1025.2	1009.4
10°	1184.1	1177.1	1160.6	1154.9	1132.8	1128.4	1108.1	1091.0	1085.3	1071.4	1050.5
12.5°	1240.4	1232.8	1219.5	1211.9	1193.6	1188.5	1166.3	1147.4	1140.4	1124.6	1100.5
15°	1285.3	1276.5	1265.7	1262.5	1248.0	1248.6	1225.8	1204.3	1196.7	1178.4	1148.0
17.5°	1314.4	1306.8	1298.6	1298.6	1292.3	1299.9	1280.3	1251.1	1243.5	1219.5	1184.7
20°	1323.3	1318.9	1315.7	1324.6	1325.2	1342.9	1326.4	1289.7	1277.7	1249.9	1215.7
22.5°	1318.9	1316.3	1318.9	1331.5	1346.1	1385.3	1369.5	1323.3	1308.7	1277.7	1250.5
25°	1304.9	1303.0	1308.1	1328.3	1358.1	1420.7	1416.9	1365.1	1348.6	1315.1	1289.7
27.5°	1280.9	1282.8	1293.5	1315.1	1366.3	1456.8	1472.0	1422.0	1401.8	1361.9	1335.9
30°	1254.9	1258.1	1279.6	1311.9	1379.0	1502.4	1547.3	1494.8	1471.4	1427.1	1391.6
32.5°	1225.8	1230.9	1265.1	1314.4	1409.4	1565.0	1644.8	1597.9	1575.2	1518.8	1466.9
35°	1201.8	1207.5	1254.9	1332.8	1458.7	1644.8	1775.8	1734.0	1706.2	1642.9	1558.1
37.5°	1217.0	1223.9	1277.7	1383.4	1539.1	1742.9	1899.2	1875.8	1846.7	1781.5	1670.7
40°	1285.9	1295.4	1361.3	1497.3	1678.9	1882.1	2033.3	2013.7	1989.7	1944.1	1816.9
42.5°	1358.1	1367.6	1451.1	1636.5	1880.8	2092.8	2204.2	2178.9	2167.5	2140.9	2005.5
45°	1401.8	1417.6	1510.6	1746.0	2069.4	2335.2	2430.8	2367.5	2380.8	2387.7	2232.7
47.5°	1431.5	1446.7	1542.9	1825.8	2211.2	2540.9	2694.7	2573.8	2607.3	2631.4	2456.7
50°	1449.9	1465.0	1563.8	1873.9	2295.3	2672.5	2947.8	2814.9	2857.9	2862.4	2674.4
52.5°	1451.1	1465.7	1559.3	1875.1	2311.8	2749.1	3140.2	3090.2	3115.5	3096.5	2922.5
55°	1415.7	1429.0	1521.4	1816.9	2248.5	2767.4	3318.0	3427.5	3430.7	3405.4	3270.6
57.5°	1363.2	1373.3	1459.3	1733.4	2157.4	2745.3	3500.9	3917.3	3899.0	3876.2	3819.9
60°	1329.6	1335.9	1411.9	1665.7	2092.2	2671.3	3718.0	4594.5	4576.1	4455.3	4531.8
62.5°	1244.2	1248.6	1326.4	1565.0	2032.7	2555.4	3837.0	5276.7	5299.5	4884.3	4981.1
65°	1042.3	1044.2	1106.2	1287.8	1766.3	2377.6	3804.7	5518.4	5655.8	5033.0	5091.9
67.5°	758.8	756.9	790.4	903.1	1267.0	2046.0	3581.9	5172.9	5460.2	5133.7	4990.0
70°	492.4	493.0	512.0	562.6	756.3	1437.2	2890.9	4545.7	4835.6	4969.1	4539.4
72.5°	257.6	265.8	259.5	284.1	427.2	822.1	1882.7	3747.7	3878.1	4012.9	3533.8
75°	129.1	134.2	141.8	152.5	216.4	482.9	1101.2	2626.3	2513.7	2209.9	2022.0
77.5°	95.6	99.4	107.6	113.9	135.4	276.6	765.1	1480.9	1360.0	1071.4	963.8
80°	67.7	72.1	86.1	92.4	100.6	133.5	496.2	849.9	858.8	649.3	320.2
82.5°	38.0	46.2	62.7	71.5	72.8	84.2	201.2	532.2	553.1	356.9	115.8
85°	19.0	28.5	44.9	53.8	48.7	52.5	99.4	255.7	273.4	200.6	63.3
87.5°	1.3	17.1	31.0	36.7	33.5	33.5	46.8	115.8	119.6	105.1	36.1
90°	0.0	10.1	19.0	22.1	19.0	16.5	19.0	37.3	40.5	31.0	7.6
92.5°	0.0	3.8	8.9	8.2	6.3	3.8	3.2	1.9	1.3	0.6	0.6
95°	0.0	0.6	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.0	0.6
100°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.0	0.0	0.6
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°	961.9	961.9	961.9	961.9	961.9	961.9	961.9	961.9	961.9	961.9	961.9
2.5°	958.8	956.9	953.7	950.5	948.6	945.5	936.0	932.2	934.7	945.5	947.4
5°	975.9	972.1	960.0	949.9	942.3	934.7	919.5	912.6	910.7	919.5	922.7
7.5°	1003.7	998.6	979.6	961.3	944.8	929.7	906.2	892.9	887.9	894.2	896.7
10°	1044.8	1034.7	1008.1	979.6	953.7	928.4	894.8	873.3	863.2	867.0	868.3
12.5°	1090.4	1078.4	1042.9	1003.7	966.4	929.7	883.5	853.1	838.5	839.2	839.8
15°	1136.0	1119.5	1075.8	1027.1	978.4	930.9	873.3	834.1	811.9	810.7	810.7
17.5°	1169.5	1151.2	1098.0	1041.0	986.0	929.7	861.9	813.8	788.5	782.8	782.8
20°	1200.5	1179.0	1113.2	1047.4	984.7	924.6	847.4	792.3	760.1	751.8	753.1
22.5°	1233.4	1206.2	1127.7	1053.7	980.9	915.7	830.9	763.8	725.2	715.8	716.4
25°	1269.5	1236.0	1144.2	1062.6	980.3	901.8	801.2	724.0	684.1	674.6	675.2
27.5°	1311.9	1266.3	1159.4	1071.4	974.6	875.2	756.3	680.3	639.8	630.9	630.9
30°	1362.5	1301.1	1179.6	1078.4	956.2	832.8	710.7	636.6	595.5	585.4	583.5
32.5°	1422.6	1346.1	1208.7	1079.0	923.3	780.3	665.1	594.2	553.1	540.5	539.8
35°	1500.5	1404.3	1244.8	1068.9	880.3	732.2	627.2	552.5	510.7	499.3	498.7
37.5°	1594.8	1485.9	1287.2	1050.5	837.3	691.1	584.1	510.1	464.5	450.6	450.0
40°	1726.4	1591.6	1323.3	1027.7	798.7	653.1	539.8	460.1	413.9	400.6	398.7
42.5°	1882.7	1707.4	1346.1	1005.6	769.5	608.8	486.0	406.9	365.2	357.6	355.7
45°	2049.8	1823.9	1360.0	989.1	743.6	555.6	425.3	360.1	326.5	319.0	317.1
47.5°	2215.6	1927.0	1371.4	982.2	710.7	489.8	374.6	324.0	294.9	287.9	286.0
50°	2387.7	2018.2	1385.9	980.9	663.2	425.9	333.5	293.0	265.8	256.9	254.4
52.5°	2587.1	2121.3	1411.9	984.7	595.5	381.0	305.0	262.0	234.8	224.7	222.1
55°	2853.5	2261.8	1443.5	987.9	519.6	353.8	281.0	231.6	204.4	194.3	191.8
57.5°	3255.4	2463.7	1478.3	975.2	465.1	337.9	256.3	203.8	181.0	172.8	172.1
60°	3784.4	2732.6	1526.4	953.1	437.9	326.5	235.4	185.4	169.0	160.7	159.5
62.5°	4193.9	2990.2	1594.1	924.0	434.1	318.3	223.4	179.1	162.6	152.5	151.9
65°	4388.8	3183.9	1670.7	894.8	448.1	317.7	223.4	179.7	160.7	149.4	147.5
67.5°	4371.7	3217.4	1645.4	837.9	446.8	320.2	231.0	182.3	162.6	148.7	146.8
70°	4061.6	3032.0	1478.3	703.7	401.9	298.7	228.5	183.5	163.9	146.8	143.7
72.5°	3344.0	2599.1	1203.7	513.9	332.9	255.0	210.1	179.1	158.8	141.8	138.6
75°	2148.5	1842.9	861.3	346.8	260.1	212.0	184.8	166.4	145.6	131.0	129.1
77.5°	943.6	820.2	455.7	248.1	205.7	170.2	152.5	141.8	128.5	110.1	105.1
80°	255.7	215.2	190.5	203.1	159.5	134.2	122.1	116.4	107.6	83.5	77.8
82.5°	102.5	99.4	121.5	156.3	113.9	94.3	93.0	89.2	86.7	60.8	55.1
85°	58.2	59.5	75.9	97.5	67.1	57.0	60.1	63.3	64.6	41.8	38.6
87.5°	29.7	31.6	48.1	46.8	38.6	29.1	33.5	38.6	39.9	22.1	15.8
90°	3.8	5.7	19.0	20.3	15.8	11.4	15.2	17.7	20.3	10.8	1.9
92.5°	0.6	0.6	1.3	3.8	4.4	3.2	4.4	6.3	7.6	3.8	0.0
95°	0.6	0.6	0.6	0.6	1.3	1.3	1.3	1.9	2.5	0.6	0.0
97.5°	0.6	0.6	1.3	1.3	1.3	0.6	0.0	0.0	0.0	0.0	0.0
100°	0.6	0.6	1.3	1.3	1.3	0.6	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: P226204

CATALOG NUMBER: MLN-B2-D-U-T2-8030-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)