

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: P226208

Luminaire Tested: **MLN-B1-D-U-T2-7030-XX**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226208
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-B1-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: 4549 lumens
Efficiency: N/A
Efficacy: 108.1 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: B1 - U1 - G1

Input Watts (W): 42.1
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

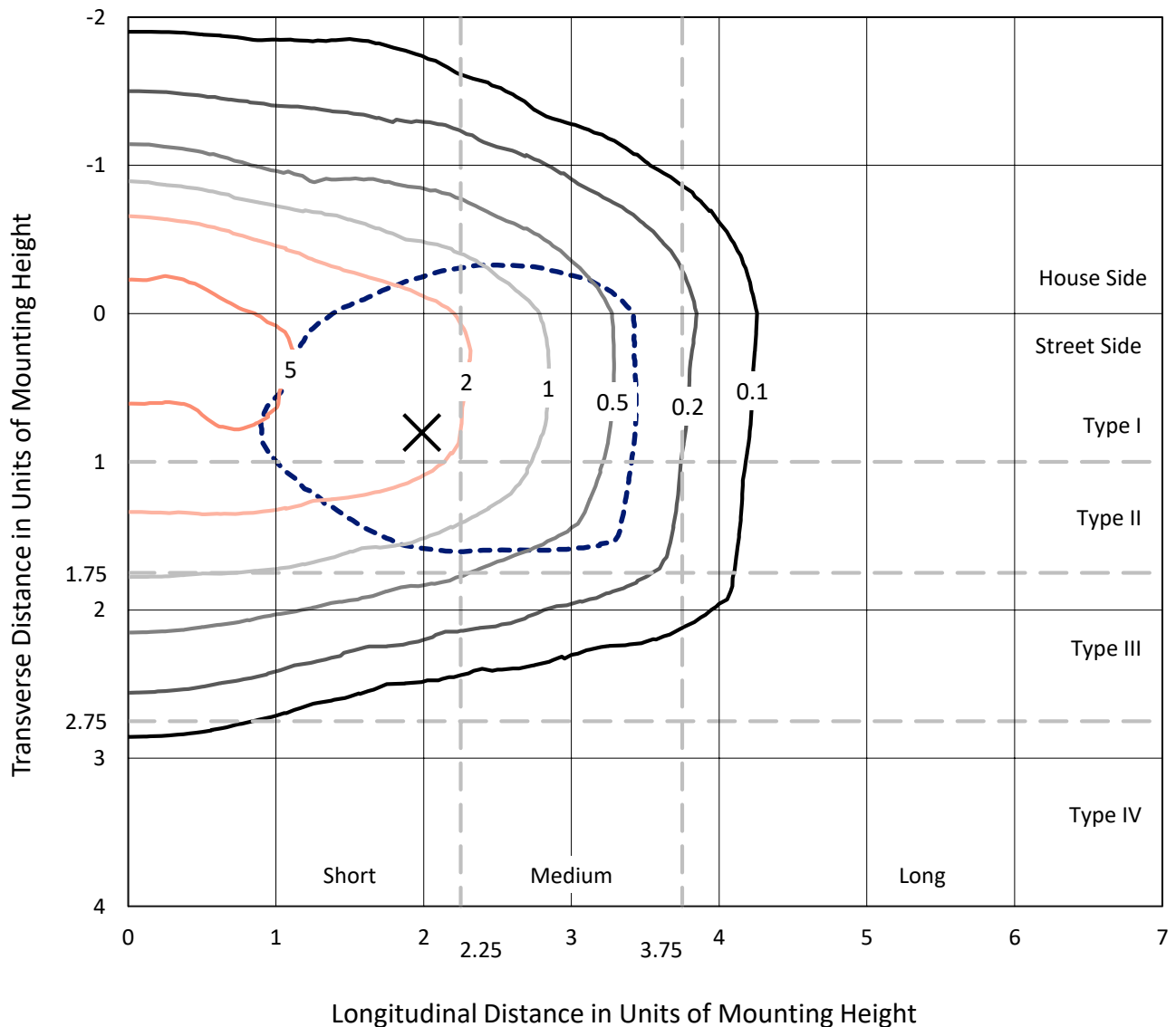


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

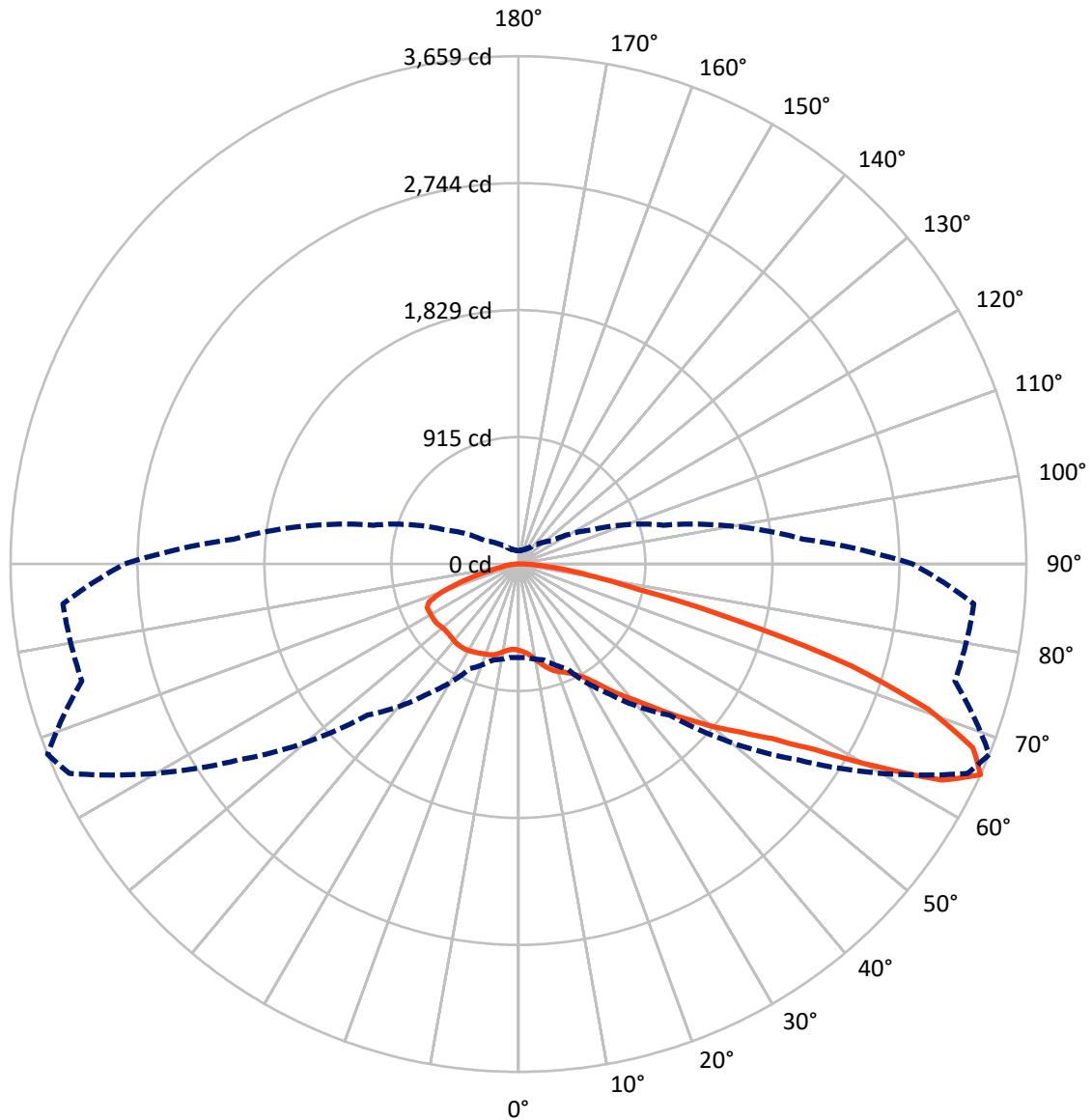


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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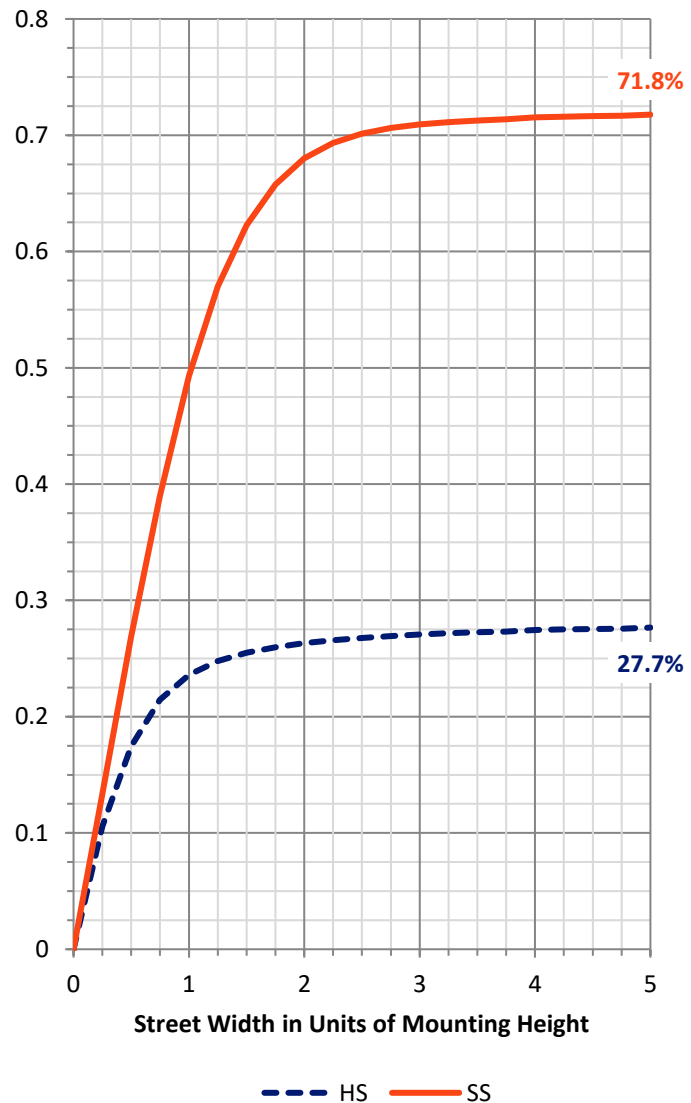
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1273.9	1.2	1275.1
	% Fixture	28.0	0.0	28.0
Street Side	Lumens	3272.5	1.4	3273.9
	% Fixture	71.9	0.0	72.0
Total	Lumens	4546.4	2.6	4549.0
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	1.3
10°-20°	198.8	4.4
20°-30°	337.9	7.4
30°-40°	481.9	10.6
40°-50°	707.6	15.6
50°-60°	970.7	21.3
60°-70°	1175.3	25.8
70°-80°	544.7	12.0
80°-90°	68.0	1.5
90°-100°	2.5	0.1
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°	4546.4	99.9
0°-180°	4549.0	100.0



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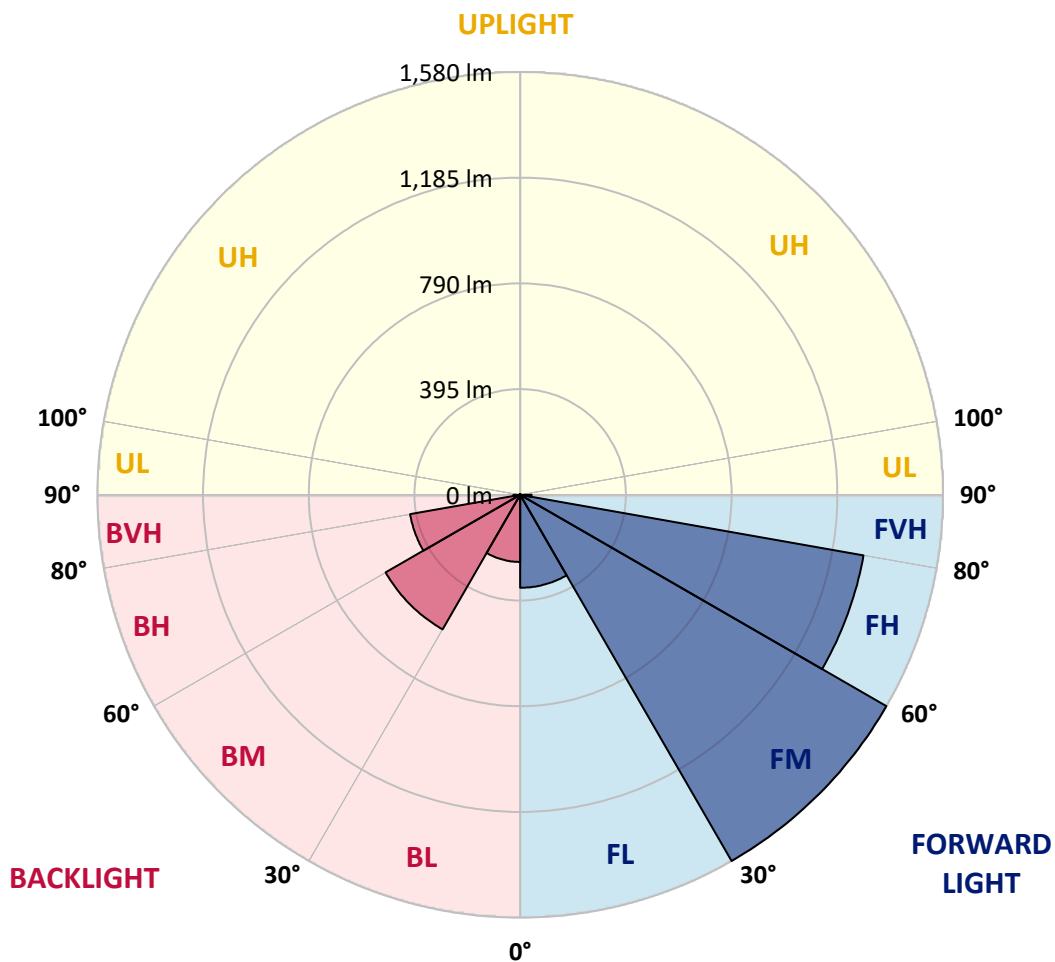
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.2	7.6			
FM	(30°-60°)	1579.9	34.7			
FH	(60°-80°)	1302.5	28.6			G1/1800
FVH	(80°-90°)	42.9	0.9			G1/100
BL	(0°-30°)	250.9	5.5	B1/500		
BM	(30°-60°)	580.4	12.8	B1/1000		
BH	(60°-80°)	417.5	9.2	B1/500		G1/500
BVH	(80°-90°)	25.1	0.6			G1/100
UL	(90°-100°)	2.5	0.1		U1/10	
UH	(100°-180°)	1.2	0.0		U1/10	

BUG Rating: B1-U1-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3
2.5°	657.1	652.2	646.0	645.2	638.2	639.1	636.6	632.9	631.7	627.2	620.6
5°	688.6	682.0	674.3	671.8	663.2	663.2	656.3	648.9	646.4	640.7	632.5
7.5°	725.8	720.1	711.1	707.0	695.6	693.5	682.9	673.4	669.8	663.2	653.0
10°	766.0	761.5	750.8	747.1	732.8	729.9	716.8	705.8	702.1	693.1	679.6
12.5°	802.4	797.5	788.9	784.0	772.1	768.8	754.5	742.2	737.7	727.5	711.9
15°	831.5	825.7	818.8	816.7	807.3	807.7	793.0	779.1	774.2	762.3	742.6
17.5°	850.3	845.4	840.1	840.1	836.0	840.9	828.2	809.4	804.5	788.9	766.4
20°	856.0	853.2	851.1	856.9	857.3	868.7	858.1	834.3	826.6	808.5	786.4
22.5°	853.2	851.5	853.2	861.4	870.8	896.2	885.9	856.0	846.6	826.6	809.0
25°	844.2	842.9	846.2	859.3	878.5	919.1	916.6	883.1	872.4	850.7	834.3
27.5°	828.6	829.8	836.8	850.7	883.9	942.4	952.2	919.9	906.8	881.0	864.2
30°	811.8	813.9	827.8	848.7	892.1	971.9	1001.0	967.0	951.8	923.2	900.2
32.5°	793.0	796.3	818.4	850.3	911.7	1012.4	1064.0	1033.7	1019.0	982.5	949.0
35°	777.4	781.1	811.8	862.2	943.6	1064.0	1148.7	1121.7	1103.7	1062.8	1007.9
37.5°	787.3	791.8	826.6	894.9	995.6	1127.5	1228.6	1213.4	1194.6	1152.4	1080.8
40°	831.9	838.0	880.6	968.6	1086.1	1217.5	1315.4	1302.7	1287.1	1257.6	1175.4
42.5°	878.5	884.7	938.7	1058.7	1216.7	1353.9	1425.9	1409.5	1402.2	1385.0	1297.4
45°	906.8	917.0	977.2	1129.5	1338.7	1510.6	1572.5	1531.5	1540.1	1544.6	1444.3
47.5°	926.0	935.9	998.1	1181.1	1430.4	1643.7	1743.2	1665.0	1686.7	1702.2	1589.2
50°	937.9	947.7	1011.6	1212.2	1484.9	1728.9	1906.9	1821.0	1848.8	1851.7	1730.1
52.5°	938.7	948.1	1008.7	1213.0	1495.5	1778.4	2031.4	1999.0	2015.4	2003.1	1890.6
55°	915.8	924.4	984.2	1175.4	1454.6	1790.3	2146.4	2217.3	2219.3	2202.9	2115.7
57.5°	881.8	888.4	944.1	1121.3	1395.6	1775.9	2264.7	2534.1	2522.2	2507.5	2471.1
60°	860.1	864.2	913.3	1077.5	1353.4	1728.0	2405.2	2972.2	2960.3	2882.1	2931.6
62.5°	804.9	807.7	858.1	1012.4	1315.0	1653.1	2482.1	3413.5	3428.2	3159.7	3222.3
65°	674.3	675.5	715.6	833.1	1142.6	1538.1	2461.2	3569.9	3658.7	3255.9	3293.9
67.5°	490.9	489.6	511.3	584.2	819.6	1323.6	2317.1	3346.3	3532.2	3321.0	3228.0
70°	318.5	318.9	331.2	363.9	489.2	929.7	1870.1	2940.6	3128.1	3214.5	2936.6
72.5°	166.6	171.9	167.8	183.8	276.3	531.8	1217.9	2424.4	2508.7	2595.9	2286.0
75°	83.5	86.8	91.7	98.7	140.0	312.4	712.3	1699.0	1626.1	1429.6	1308.0
77.5°	61.8	64.3	69.6	73.7	87.6	178.9	495.0	958.0	879.8	693.1	623.5
80°	43.8	46.7	55.7	59.8	65.1	86.4	321.0	549.8	555.5	420.0	207.2
82.5°	24.6	29.9	40.5	46.3	47.1	54.4	130.2	344.3	357.8	230.9	74.9
85°	12.3	18.4	29.1	34.8	31.5	34.0	64.3	165.4	176.9	129.8	40.9
87.5°	0.8	11.1	20.1	23.7	21.7	21.7	30.3	74.9	77.4	68.0	23.3
90°	0.0	6.6	12.3	14.3	12.3	10.6	12.3	24.2	26.2	20.1	4.9
92.5°	0.0	2.5	5.7	5.3	4.1	2.5	2.0	1.2	0.8	0.4	0.4
95°	0.0	0.4	1.2	0.8	0.8	0.4	0.4	0.4	0.4	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.0	0.4
100°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.0	0.0	0.4
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°	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3
2.5°	620.2	619.0	616.9	614.9	613.7	611.6	605.5	603.0	604.7	611.6	612.9
5°	631.3	628.8	621.0	614.5	609.6	604.7	594.8	590.3	589.1	594.8	596.9
7.5°	649.3	646.0	633.7	621.9	611.2	601.4	586.2	577.6	574.4	578.5	580.1
10°	675.9	669.4	652.2	633.7	616.9	600.6	578.9	565.0	558.4	560.9	561.7
12.5°	705.4	697.6	674.7	649.3	625.1	601.4	571.5	551.9	542.4	542.9	543.3
15°	734.9	724.2	696.0	664.4	632.9	602.2	565.0	539.6	525.2	524.4	524.4
17.5°	756.6	744.7	710.3	673.4	637.8	601.4	557.6	526.5	510.1	506.4	506.4
20°	776.6	762.7	720.1	677.5	637.0	598.1	548.2	512.6	491.7	486.4	487.2
22.5°	797.9	780.3	729.5	681.6	634.6	592.4	537.5	494.1	469.2	463.0	463.4
25°	821.2	799.5	740.2	687.4	634.1	583.4	518.3	468.3	442.6	436.4	436.8
27.5°	848.7	819.2	750.0	693.1	630.5	566.2	489.2	440.1	413.9	408.2	408.2
30°	881.4	841.7	763.1	697.6	618.6	538.8	459.7	411.8	385.2	378.7	377.5
32.5°	920.3	870.8	781.9	698.0	597.3	504.8	430.3	384.4	357.8	349.6	349.2
35°	970.7	908.4	805.3	691.5	569.5	473.7	405.7	357.4	330.4	323.0	322.6
37.5°	1031.7	961.2	832.7	679.6	541.6	447.1	377.9	330.0	300.5	291.5	291.1
40°	1116.8	1029.6	856.0	664.8	516.6	422.5	349.2	297.6	267.7	259.1	257.9
42.5°	1217.9	1104.5	870.8	650.5	497.8	393.8	314.4	263.2	236.2	231.3	230.1
45°	1326.0	1179.9	879.8	639.9	481.0	359.4	275.1	232.9	211.2	206.3	205.1
47.5°	1433.3	1246.6	887.1	635.4	459.7	316.9	242.4	209.6	190.8	186.3	185.0
50°	1544.6	1305.5	896.6	634.6	429.0	275.5	215.7	189.5	171.9	166.2	164.6
52.5°	1673.6	1372.3	913.3	637.0	385.2	246.5	197.3	169.5	151.9	145.3	143.7
55°	1845.9	1463.2	933.8	639.1	336.1	228.8	181.8	149.8	132.2	125.7	124.0
57.5°	2105.9	1593.8	956.3	630.9	300.9	218.6	165.8	131.8	117.1	111.8	111.4
60°	2448.1	1767.7	987.4	616.5	283.3	211.2	152.3	120.0	109.3	104.0	103.2
62.5°	2713.0	1934.4	1031.3	597.7	280.8	205.9	144.5	115.9	105.2	98.7	98.3
65°	2839.1	2059.6	1080.8	578.9	289.8	205.5	144.5	116.3	104.0	96.6	95.4
67.5°	2828.1	2081.3	1064.4	542.0	289.0	207.2	149.4	117.9	105.2	96.2	95.0
70°	2627.5	1961.4	956.3	455.2	260.0	193.2	147.8	118.7	106.0	95.0	92.9
72.5°	2163.2	1681.4	778.7	332.4	215.3	165.0	135.9	115.9	102.8	91.7	89.7
75°	1389.9	1192.1	557.2	224.3	168.3	137.1	119.5	107.7	94.2	84.7	83.5
77.5°	610.4	530.6	294.8	160.5	133.1	110.1	98.7	91.7	83.1	71.2	68.0
80°	165.4	139.2	123.2	131.4	103.2	86.8	79.0	75.3	69.6	54.0	50.4
82.5°	66.3	64.3	78.6	101.1	73.7	61.0	60.2	57.7	56.1	39.3	35.6
85°	37.7	38.5	49.1	63.0	43.4	36.8	38.9	40.9	41.8	27.0	25.0
87.5°	19.2	20.5	31.1	30.3	25.0	18.8	21.7	25.0	25.8	14.3	10.2
90°	2.5	3.7	12.3	13.1	10.2	7.4	9.8	11.5	13.1	7.0	1.2
92.5°	0.4	0.4	0.8	2.5	2.9	2.0	2.9	4.1	4.9	2.5	0.0
95°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	1.2	1.6	0.4	0.0
97.5°	0.4	0.4	0.8	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0
100°	0.4	0.4	0.8	0.8	0.8	0.4	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



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CATALOG NUMBER: MLN-B1-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)