

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: P226216

Luminaire Tested: **MLN-B2-D-U-T3-7030-XX**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29662)
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-T3-7030-XX
Description: METROLINE ARCHITECTURAL LED LUMINAIRE
70 CRI, 3000K LEDS AND TYPE III DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8296 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3.75' x H: 0.17')
IES Classification: Type III - 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

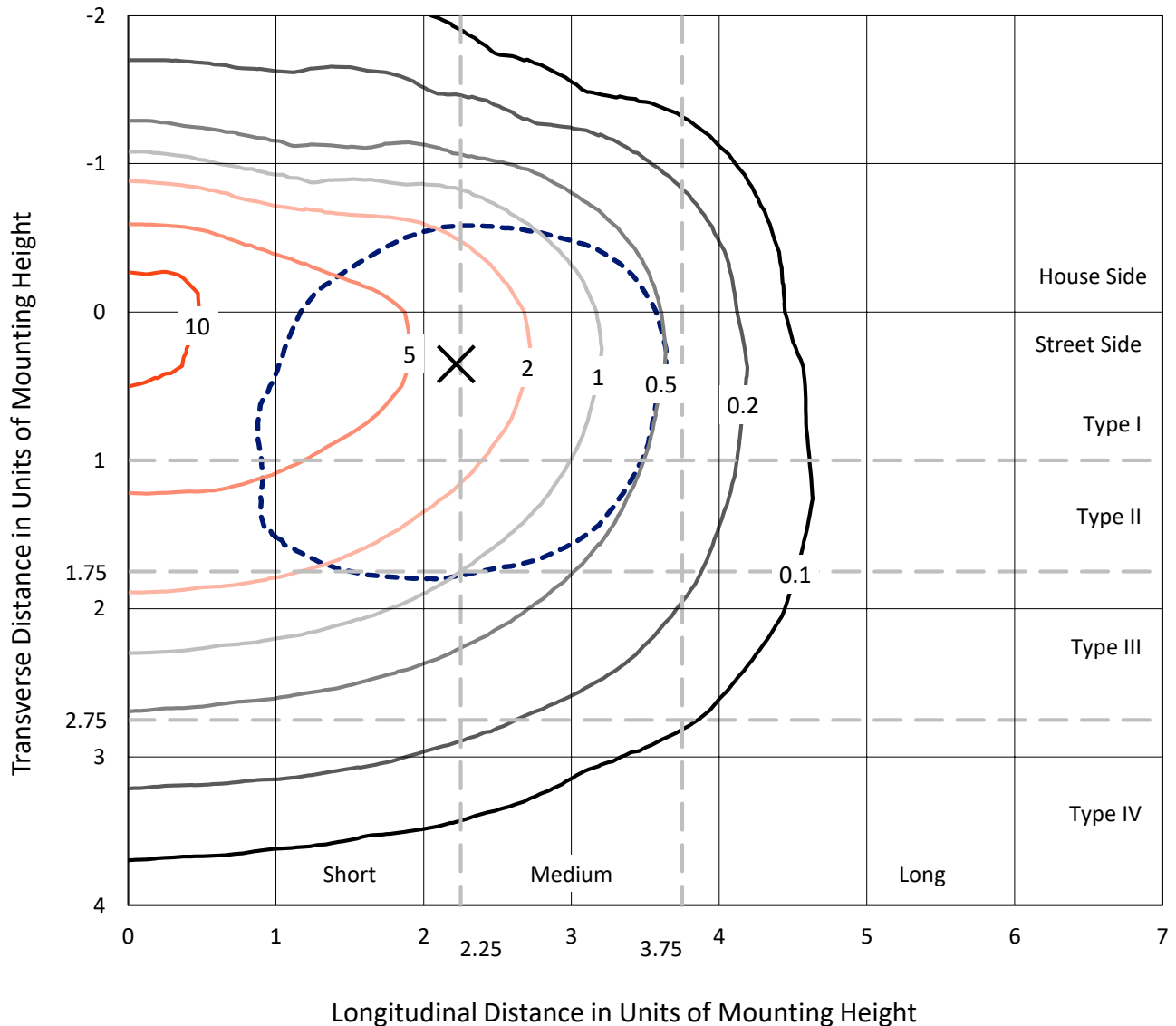


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

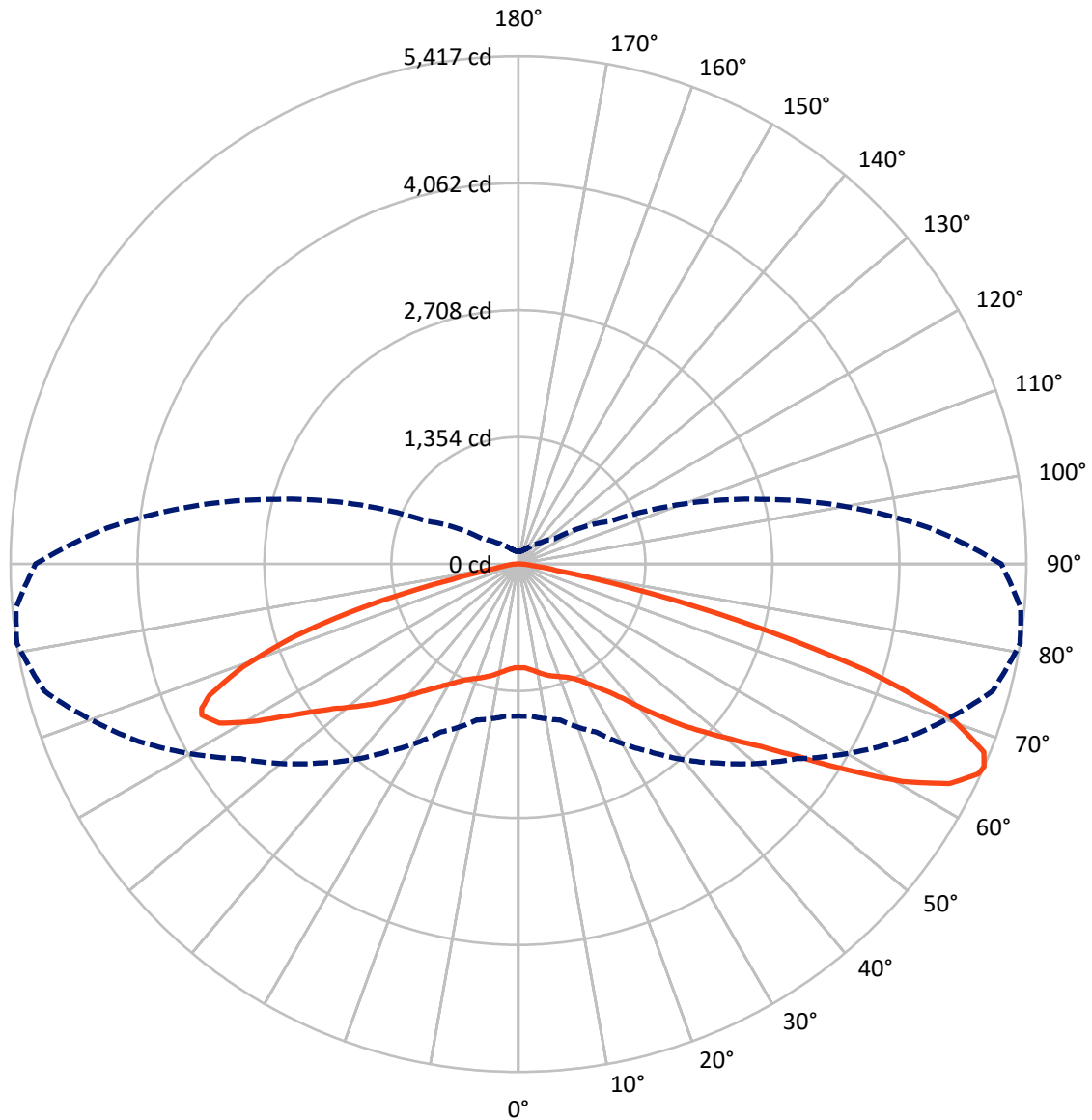


Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 81-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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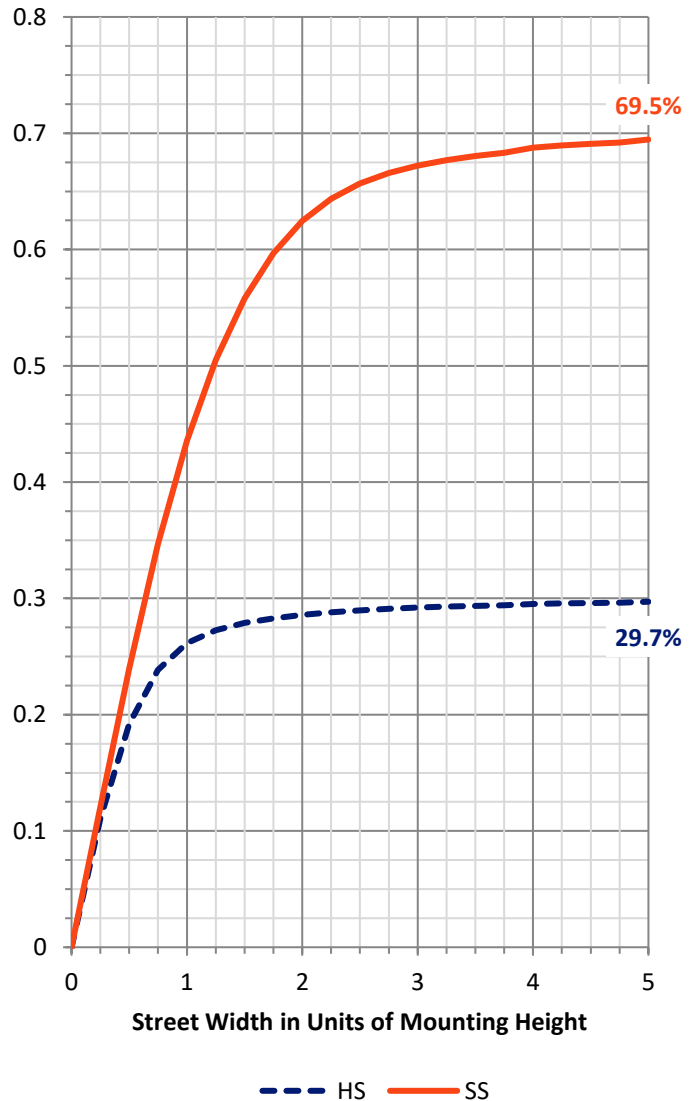
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2495.0	3.0	2498.0
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	5793.7	4.4	5798.0
	% Fixture	69.8	0.1	69.9
Total	Lumens	8288.7	7.4	8296.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	1.3
10°-20°	344.9	4.2
20°-30°	588.8	7.1
30°-40°	880.4	10.6
40°-50°	1261.1	15.2
50°-60°	1728.9	20.8
60°-70°	2117.3	25.5
70°-80°	1074.4	13.0
80°-90°	184.0	2.2
90°-100°	7.2	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°	8288.7	99.9
0°-180°	8296.0	100.0

Coefficient of Utilization



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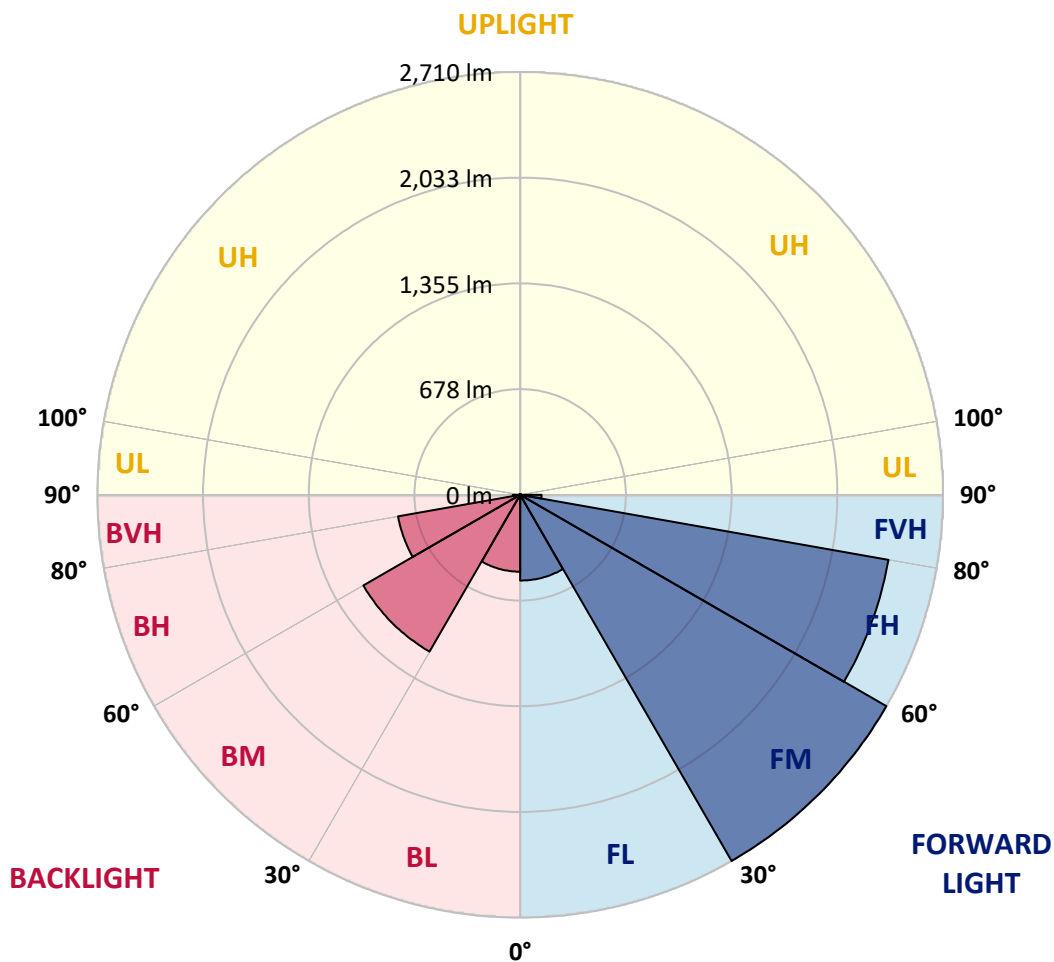
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.6	6.6			
FM	(30°-60°)	2710.0	32.7			
FH	(60°-80°)	2396.9	28.9			G2/5000
FVH	(80°-90°)	137.1	1.7			G2/225
BL	(0°-30°)	492.9	5.9	B1/500		
BM	(30°-60°)	1160.5	14.0	B2/2500		
BH	(60°-80°)	794.8	9.6	B2/1000		G2/1000
BVH	(80°-90°)	46.8	0.6			G1/100
UL	(90°-100°)	7.2	0.1		U1/10	
UH	(100°-180°)	3.0	0.0		U1/10	

BUG Rating: B2-U1-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1126.4	1123.0	1112.7	1110.6	1106.5	1114.8	1115.4	1115.4	1109.3	1106.5	1104.5
5°	1137.4	1134.0	1123.7	1123.0	1117.5	1127.1	1127.8	1126.4	1123.7	1123.7	1123.7
7.5°	1168.3	1164.2	1153.2	1147.0	1138.8	1145.7	1146.3	1146.3	1145.7	1147.0	1147.7
10°	1215.7	1206.7	1194.4	1183.4	1169.0	1172.4	1171.1	1173.8	1173.1	1177.2	1175.9
12.5°	1257.5	1251.4	1236.3	1223.9	1205.4	1204.7	1198.5	1198.5	1201.9	1207.4	1207.4
15°	1293.9	1289.8	1274.7	1263.7	1245.2	1236.9	1225.3	1225.3	1230.1	1234.9	1234.2
17.5°	1324.8	1324.1	1307.0	1299.4	1280.2	1271.3	1251.4	1249.3	1254.8	1257.5	1257.5
20°	1354.3	1352.3	1336.5	1327.6	1312.5	1308.3	1275.4	1269.9	1278.1	1282.9	1282.3
22.5°	1374.2	1370.1	1355.7	1348.1	1340.6	1342.0	1304.9	1292.5	1304.9	1311.8	1310.4
25°	1390.0	1387.3	1368.7	1366.0	1366.7	1379.7	1342.0	1331.7	1345.4	1350.9	1349.5
27.5°	1409.2	1405.8	1388.6	1383.2	1398.3	1425.7	1399.6	1385.2	1400.3	1407.9	1408.6
30°	1451.1	1448.4	1425.7	1417.5	1444.2	1495.7	1477.2	1462.8	1464.8	1486.1	1488.9
32.5°	1547.9	1543.8	1519.8	1504.7	1534.2	1600.1	1589.8	1570.6	1555.5	1576.0	1581.5
35°	1648.1	1644.0	1629.6	1622.0	1667.3	1751.8	1742.2	1716.1	1668.7	1683.1	1686.6
37.5°	1707.8	1712.6	1716.8	1738.7	1814.2	1926.1	1930.2	1895.9	1819.7	1823.2	1818.4
40°	1760.0	1765.5	1786.1	1845.8	1963.9	2095.0	2149.9	2101.8	2022.2	2014.7	1995.5
42.5°	1802.6	1814.2	1851.3	1947.4	2100.5	2254.9	2350.3	2306.4	2246.0	2220.6	2195.2
45°	1853.4	1861.6	1914.5	2044.2	2220.6	2405.3	2528.8	2506.2	2471.1	2451.9	2393.6
47.5°	1893.2	1907.6	1964.6	2119.7	2327.0	2542.5	2699.0	2715.5	2716.9	2677.1	2611.9
50°	1946.0	1963.9	2014.0	2185.6	2399.1	2651.0	2858.3	2926.3	2972.2	2932.4	2834.3
52.5°	2003.7	2026.3	2079.2	2272.8	2469.8	2734.7	3001.1	3141.8	3253.0	3229.0	3123.9
55°	2079.2	2099.1	2158.8	2377.8	2569.3	2833.6	3157.6	3404.7	3635.3	3625.0	3522.1
57.5°	2158.8	2169.8	2237.1	2475.3	2706.6	2999.7	3346.3	3765.1	4134.4	4145.4	4034.8
60°	2099.1	2108.7	2187.7	2468.4	2778.0	3159.6	3546.8	4179.0	4680.8	4707.5	4613.5
62.5°	1930.9	1939.9	2031.8	2338.0	2719.6	3190.5	3681.3	4457.7	5082.3	5157.2	5043.2
65°	1716.8	1726.4	1821.1	2090.9	2549.4	3084.1	3675.8	4523.6	5243.6	5393.3	5331.5
66°	1620.7	1629.6	1722.3	1979.0	2442.3	3001.8	3618.9	4471.4	5235.4	5416.6	5378.2
67.5°	1473.1	1450.4	1533.5	1804.6	2254.2	2835.0	3462.4	4347.8	5132.4	5354.2	5340.4
70°	1127.1	1107.9	1196.4	1434.6	1855.4	2440.3	3077.3	3929.1	4689.7	4884.0	4911.4
72.5°	775.7	761.9	843.6	1046.8	1390.7	1906.2	2497.2	3235.8	3793.2	3875.6	3979.9
75°	547.1	538.8	587.6	698.1	932.9	1313.1	1841.0	2302.3	2482.8	2449.9	2553.5
77.5°	319.9	327.4	393.3	483.2	646.6	827.1	1252.7	1416.8	1319.3	1175.2	1110.0
80°	158.6	159.9	218.3	289.0	460.6	624.7	814.8	918.4	831.3	407.1	300.7
82.5°	73.4	80.3	107.8	133.2	205.2	451.7	689.2	877.9	746.1	166.8	133.2
85°	31.6	41.9	69.3	82.4	86.5	180.5	562.9	791.5	475.0	100.9	81.0
87.5°	9.6	22.7	47.4	57.7	52.2	65.9	210.7	361.1	172.3	50.1	45.3
90°	0.0	13.7	29.5	32.9	28.8	26.8	61.1	111.2	44.6	17.8	16.5
92.5°	0.0	6.2	16.5	15.8	11.7	7.6	8.9	8.9	2.7	2.1	2.1
95°	0.0	1.4	6.2	4.1	2.7	1.4	0.7	0.7	0.7	0.7	0.7
97.5°	0.0	0.0	0.7	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7
100°	0.0	0.0	0.7	1.4	1.4	0.7	0.7	0.7	0.7	0.7	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



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9	1107.9
2.5°	1107.9	1106.5	1109.3	1112.7	1114.1	1115.4	1104.5	1104.5	1107.9	1120.9	1121.6
5°	1126.4	1123.7	1122.3	1123.7	1125.7	1127.8	1116.1	1115.4	1118.9	1131.2	1133.3
7.5°	1149.1	1147.0	1145.0	1142.9	1142.9	1144.3	1130.6	1128.5	1132.6	1145.0	1146.3
10°	1177.9	1175.2	1171.1	1168.3	1166.9	1164.9	1143.6	1136.0	1136.7	1148.4	1150.5
12.5°	1205.4	1204.7	1201.9	1202.6	1198.5	1188.2	1153.2	1134.7	1127.8	1136.0	1138.8
15°	1232.1	1232.1	1236.9	1241.8	1231.5	1206.7	1158.7	1125.7	1107.9	1114.1	1115.4
17.5°	1256.2	1258.9	1269.2	1275.4	1258.2	1223.9	1158.0	1108.6	1079.1	1079.8	1079.8
20°	1283.6	1286.4	1300.1	1302.2	1278.1	1233.5	1148.4	1079.8	1042.0	1037.9	1034.5
22.5°	1310.4	1315.2	1328.2	1324.8	1290.5	1232.8	1128.5	1047.5	1001.5	994.0	990.5
25°	1346.1	1354.3	1362.6	1346.8	1298.0	1220.5	1098.3	1011.1	954.1	940.4	936.3
27.5°	1400.3	1408.6	1404.4	1368.7	1299.4	1194.4	1067.4	966.5	894.4	873.8	871.8
30°	1477.2	1477.9	1451.1	1390.0	1293.9	1168.3	1022.8	906.8	825.1	802.4	801.1
32.5°	1568.5	1554.1	1501.2	1405.8	1279.5	1127.8	958.9	834.7	755.8	733.1	729.0
35°	1668.0	1647.4	1555.5	1423.0	1252.7	1064.7	882.1	761.3	688.5	667.2	663.8
37.5°	1788.2	1755.9	1616.5	1434.6	1208.1	983.7	801.8	688.5	617.1	595.8	591.0
40°	1942.6	1893.2	1686.6	1435.3	1140.2	887.6	720.1	610.9	542.3	520.3	518.3
42.5°	2127.9	2042.8	1757.3	1423.0	1061.2	805.9	639.8	528.6	463.3	438.6	439.3
45°	2324.3	2217.2	1833.5	1398.9	987.1	713.2	545.0	444.8	386.5	367.9	367.2
47.5°	2525.4	2395.0	1914.5	1372.2	904.7	624.7	460.6	366.6	321.2	311.6	306.1
50°	2734.7	2584.4	1994.8	1344.7	812.7	537.5	379.6	302.7	265.6	256.0	252.6
52.5°	2997.0	2791.0	2072.3	1322.1	723.5	452.4	313.0	253.3	219.7	209.4	206.6
55°	3372.4	3082.8	2166.4	1293.2	646.6	377.5	266.3	213.5	186.7	177.1	174.4
57.5°	3861.2	3444.5	2290.6	1254.1	577.3	328.1	231.3	188.1	170.2	160.6	158.6
60°	4407.6	3868.7	2476.0	1215.7	521.0	302.0	212.8	178.5	161.3	151.7	150.3
62.5°	4892.9	4233.9	2682.6	1180.7	491.5	296.5	212.1	175.0	153.8	143.5	142.1
65°	5137.9	4420.6	2723.8	1123.7	477.1	311.0	225.8	174.4	147.6	135.9	134.5
66°	5149.6	4405.5	2669.5	1081.8	466.1	315.8	231.3	173.7	144.8	133.2	131.8
67.5°	5053.5	4282.0	2519.2	976.8	437.9	313.7	236.8	172.3	140.7	128.4	127.7
70°	4575.7	3820.0	2123.1	759.2	370.7	284.9	225.8	165.4	133.2	120.8	118.8
72.5°	3672.4	3129.4	1643.3	543.7	305.5	247.8	205.9	155.8	126.3	113.3	111.2
75°	2359.9	2081.9	1120.9	390.6	258.8	216.9	181.2	148.3	118.8	105.0	103.7
77.5°	829.9	810.7	588.3	301.3	224.5	187.4	156.5	133.2	107.8	85.8	81.7
80°	215.5	226.5	271.8	258.8	189.5	156.5	129.7	113.3	92.7	68.0	66.6
82.5°	116.7	124.9	168.2	205.2	152.4	124.2	103.0	86.5	73.4	54.9	50.8
85°	74.1	78.3	109.1	124.9	99.5	92.0	76.2	62.5	54.2	35.0	31.6
87.5°	46.7	54.2	69.3	67.3	51.5	39.1	50.8	41.9	37.8	21.3	15.8
90°	13.7	18.5	27.5	28.1	21.3	15.8	24.7	24.7	24.0	11.7	0.0
92.5°	1.4	1.4	2.1	4.8	5.5	6.2	10.3	13.0	13.0	2.7	0.0
95°	0.7	0.7	0.7	1.4	2.1	2.7	3.4	5.5	5.5	0.7	0.0
97.5°	0.7	0.7	1.4	1.4	1.4	1.4	0.7	1.4	0.7	0.0	0.0
100°	0.7	1.4	1.4	1.4	1.4	1.4	1.4	0.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)