

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: P459629

Luminaire Tested: **GAN-SA5A-AMB-U-SL3**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-AMB-U-SL3
Description: GALLEON ROADWAY AND AREA LUMINAIRE
(5) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5154 lumens
Efficiency: N/A
Efficacy: 51.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

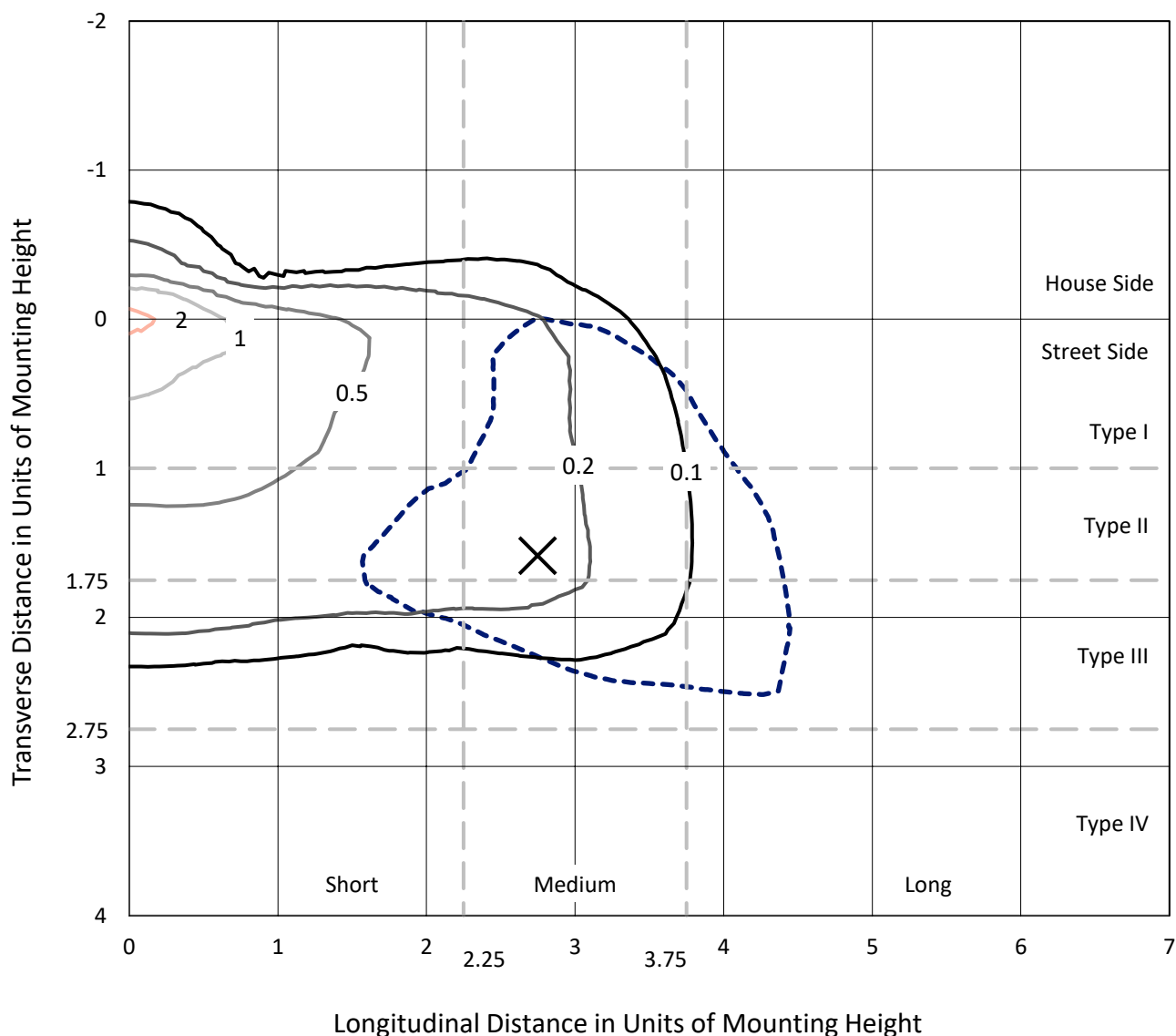
Input Watts (W): 101
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

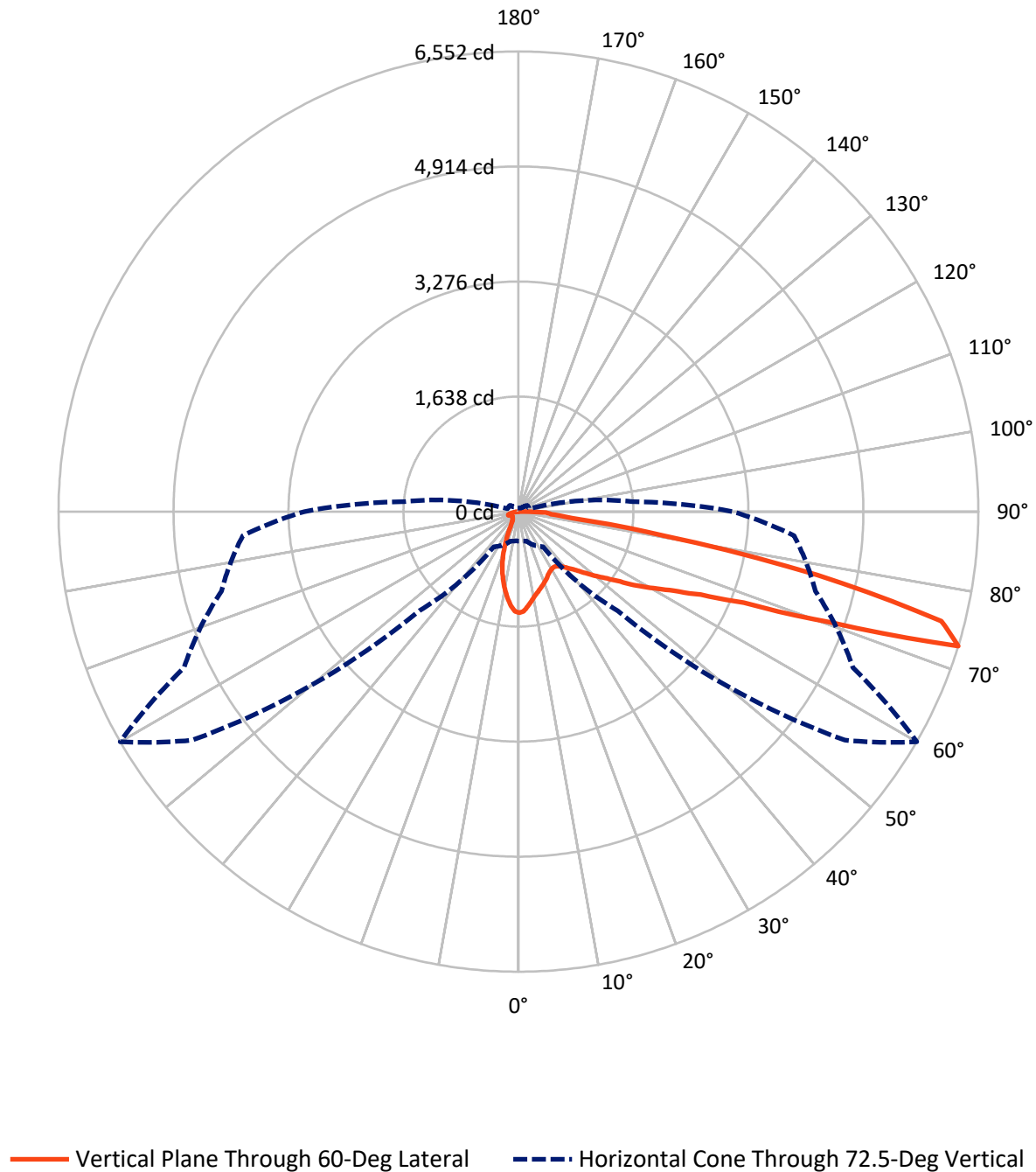
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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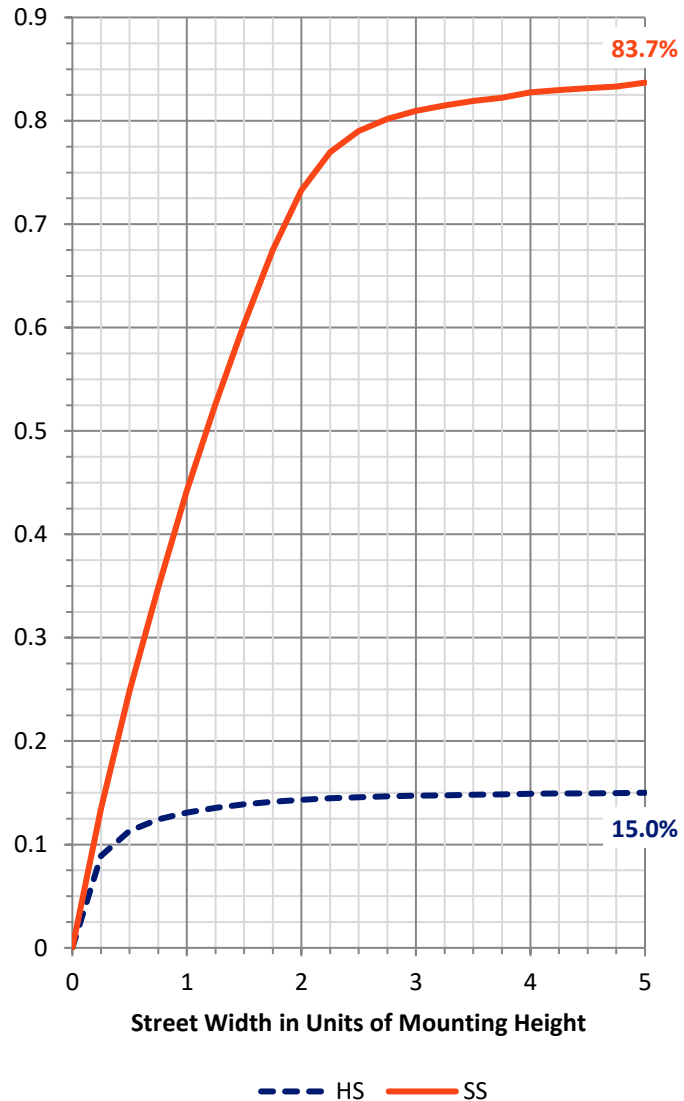
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	783.1	0.0	783.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	4370.9	0.0	4370.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	5154.0	0.0	5154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	2.3
10°-20°	256.7	5.0
20°-30°	317.4	6.2
30°-40°	401.3	7.8
40°-50°	569.9	11.1
50°-60°	868.8	16.9
60°-70°	1310.4	25.4
70°-80°	1152.8	22.4
80°-90°	155.7	3.0
90°-100°	0.0	0.0
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°	5154.0	100.0
0°-180°	5154.0	100.0

Coefficient of Utilization



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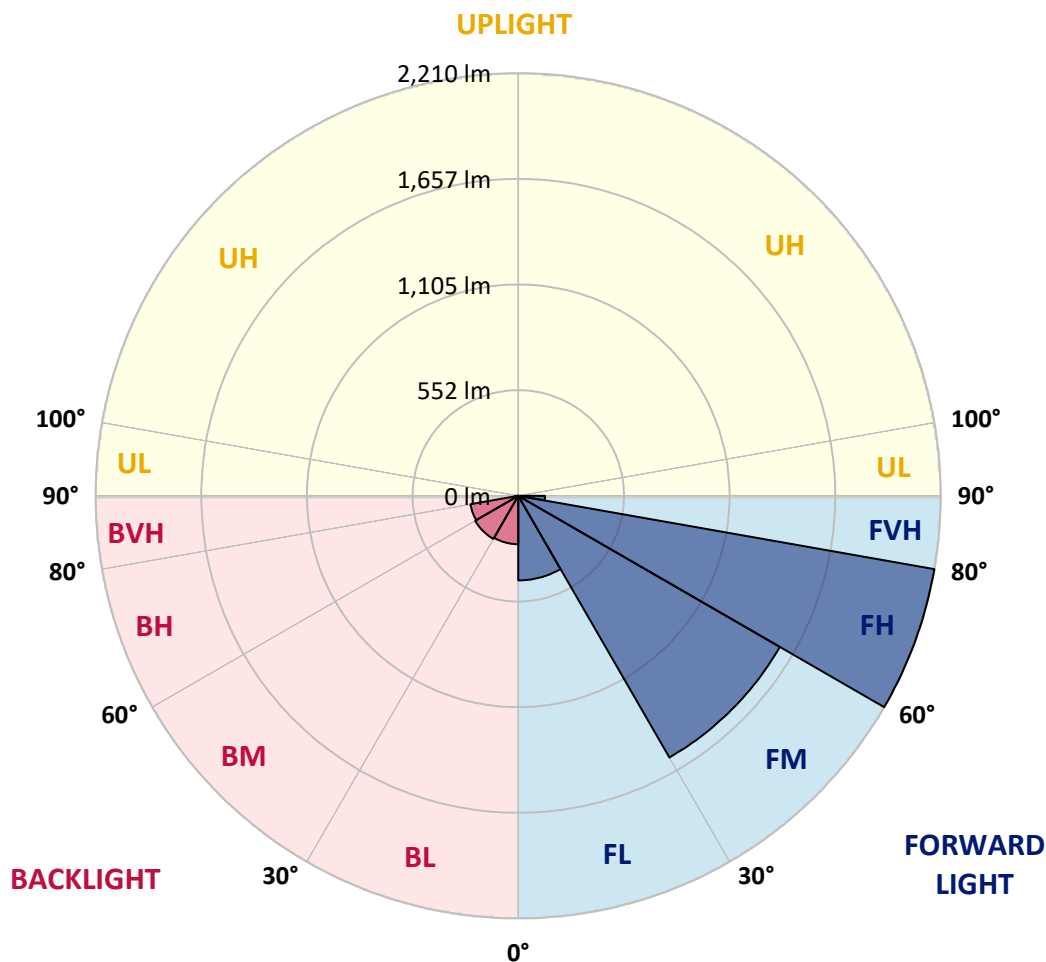
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	442.2	8.6			
FM	(30°-60°)	1579.7	30.6			
FH	(60°-80°)	2209.6	42.9			G2/5000
FVH	(80°-90°)	139.4	2.7			G2/225
BL	(0°-30°)	253.0	4.9	B1/500		
BM	(30°-60°)	260.2	5.0	B1/1000		
BH	(60°-80°)	253.7	4.9	B1/500		G1/500
BVH	(80°-90°)	16.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



Cooper Lighting Solutions Photometric Lab

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7
2.5°	1401.1	1401.1	1401.1	1409.9	1412.1	1412.1	1420.9	1420.9	1418.7	1427.5	1425.3
5°	1315.2	1319.6	1319.6	1324.0	1337.2	1343.8	1357.0	1359.2	1365.8	1379.1	1387.9
7.5°	1209.4	1216.0	1227.1	1244.7	1257.9	1268.9	1293.1	1293.1	1304.2	1324.0	1339.4
10°	1110.3	1112.5	1121.3	1141.1	1167.6	1196.2	1224.8	1233.7	1246.9	1271.1	1295.3
12.5°	1042.0	1046.4	1050.8	1068.4	1097.1	1125.7	1169.8	1187.4	1202.8	1231.5	1264.5
15°	969.3	971.5	982.5	1004.6	1039.8	1070.6	1121.3	1145.5	1169.8	1207.2	1242.5
17.5°	920.8	918.6	927.4	942.9	980.3	1022.2	1077.3	1105.9	1134.5	1185.2	1222.6
20°	894.4	896.6	896.6	901.0	925.2	967.1	1031.0	1068.4	1105.9	1172.0	1211.6
22.5°	887.8	887.8	881.2	879.0	890.0	925.2	989.1	1031.0	1075.0	1169.8	1205.0
25°	887.8	887.8	881.2	872.4	872.4	892.2	949.5	989.1	1042.0	1172.0	1196.2
27.5°	903.2	903.2	894.4	881.2	870.2	874.6	918.6	960.5	1020.0	1176.4	1189.6
30°	927.4	925.2	918.6	907.6	885.6	870.2	903.2	940.7	997.9	1187.4	1185.2
32.5°	951.7	953.9	949.5	940.7	916.4	883.4	901.0	936.3	993.5	1202.8	1185.2
35°	989.1	991.3	991.3	982.5	962.7	916.4	923.0	953.9	1006.8	1227.1	1194.0
37.5°	1031.0	1031.0	1037.6	1037.6	1013.4	962.7	964.9	989.1	1033.2	1260.1	1216.0
40°	1072.8	1072.8	1083.9	1099.3	1079.5	1026.6	1028.8	1046.4	1086.1	1306.4	1260.1
42.5°	1125.7	1121.3	1145.5	1165.4	1156.6	1108.1	1097.1	1119.1	1147.7	1370.2	1326.2
45°	1163.2	1163.2	1200.6	1224.8	1244.7	1196.2	1189.6	1207.2	1235.9	1440.7	1418.7
47.5°	1207.2	1209.4	1249.1	1299.7	1330.6	1302.0	1293.1	1317.4	1337.2	1533.3	1535.5
50°	1244.7	1251.3	1304.2	1376.9	1427.5	1429.7	1414.3	1445.1	1445.1	1636.8	1672.1
52.5°	1295.3	1306.4	1374.7	1454.0	1537.7	1566.3	1570.7	1579.5	1581.7	1764.6	1824.1
55°	1423.1	1436.3	1493.6	1559.7	1658.8	1724.9	1771.2	1755.8	1738.1	1903.4	1982.7
57.5°	1650.0	1639.0	1661.0	1676.5	1773.4	1881.3	1995.9	1989.3	1936.4	2064.2	2152.3
60°	1846.1	1850.5	1879.1	1841.7	1905.6	2075.2	2209.6	2211.8	2121.5	2236.0	2308.7
62.5°	1863.7	1892.3	2013.5	2097.2	2194.2	2299.9	2504.8	2476.1	2359.4	2403.4	2491.6
65°	1517.8	1555.3	1753.6	2026.7	2526.8	2976.2	2866.1	2852.8	2650.2	2636.9	2749.3
67.5°	782.1	810.7	916.4	1420.9	2273.5	3674.5	3747.2	3463.1	3051.1	2993.8	3130.4
70°	535.3	537.5	537.5	647.7	1110.3	3368.3	5331.2	4729.8	3848.6	3588.6	3760.5
72.5°	418.6	418.6	434.0	528.7	610.2	1998.1	5674.8	6551.6	5256.3	4379.5	3941.1
75°	312.8	315.0	343.7	440.6	594.8	597.0	4747.4	6223.4	5937.0	4320.0	3062.1
77.5°	237.9	233.5	271.0	363.5	579.4	544.1	2562.0	4348.7	4203.3	2936.6	1110.3
80°	149.8	156.4	182.8	304.0	555.1	544.1	896.6	2121.5	1698.5	702.7	187.3
82.5°	85.9	90.3	114.6	189.5	497.9	541.9	559.6	768.8	420.8	174.0	88.1
85°	50.7	50.7	72.7	119.0	361.3	535.3	544.1	462.6	233.5	90.3	46.3
87.5°	22.0	26.4	41.9	57.3	163.0	451.6	493.5	392.1	169.6	50.7	24.2
90°	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°	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7
2.5°	1423.1	1423.1	1418.7	1418.7	1420.9	1409.9	1407.7	1401.1	1405.5	1403.3	1394.5
5°	1385.7	1383.5	1379.1	1354.8	1341.6	1308.6	1308.6	1288.7	1282.1	1282.1	1268.9
7.5°	1339.4	1332.8	1304.2	1264.5	1227.1	1191.8	1158.8	1134.5	1116.9	1101.5	1103.7
10°	1295.3	1282.1	1235.9	1167.6	1108.1	1042.0	991.3	934.1	903.2	859.2	876.8
12.5°	1260.1	1240.3	1165.4	1068.4	980.3	883.4	782.1	696.1	625.6	581.6	555.1
15°	1231.5	1198.4	1088.3	967.1	848.1	707.2	570.6	453.8	365.7	339.3	341.5
17.5°	1205.0	1158.8	1020.0	863.6	702.7	530.9	374.5	297.4	268.8	255.5	255.5
20°	1180.8	1112.5	931.9	749.0	541.9	356.9	268.8	242.3	231.3	224.7	222.5
22.5°	1149.9	1070.6	845.9	630.0	387.7	257.7	222.5	209.3	207.1	207.1	207.1
25°	1125.7	1020.0	755.6	482.4	268.8	209.3	191.7	189.5	191.7	193.9	193.9
27.5°	1097.1	969.3	665.3	339.3	204.9	176.2	169.6	174.0	178.4	182.8	182.8
30°	1070.6	920.8	568.4	237.9	169.6	154.2	154.2	158.6	165.2	169.6	169.6
32.5°	1053.0	885.6	453.8	187.3	149.8	141.0	143.2	145.4	152.0	154.2	154.2
35°	1039.8	850.3	341.5	158.6	136.6	132.2	134.4	136.6	138.8	141.0	141.0
37.5°	1042.0	830.5	244.5	141.0	127.8	125.6	127.8	127.8	127.8	130.0	130.0
40°	1068.4	821.7	193.9	130.0	123.4	121.2	121.2	119.0	119.0	121.2	121.2
42.5°	1108.1	823.9	171.8	125.6	119.0	116.8	114.6	112.4	112.4	112.4	112.4
45°	1172.0	845.9	158.6	121.2	116.8	112.4	107.9	105.7	105.7	110.1	110.1
47.5°	1266.7	879.0	145.4	119.0	112.4	105.7	103.5	101.3	103.5	105.7	107.9
50°	1376.9	907.6	138.8	116.8	112.4	101.3	99.1	96.9	99.1	105.7	105.7
52.5°	1504.6	949.5	136.6	116.8	110.1	99.1	94.7	94.7	96.9	103.5	103.5
55°	1647.8	1013.4	138.8	116.8	107.9	96.9	92.5	90.3	94.7	99.1	99.1
57.5°	1797.6	1099.3	143.2	116.8	103.5	96.9	90.3	85.9	88.1	92.5	92.5
60°	1947.4	1216.0	149.8	114.6	101.3	94.7	88.1	81.5	81.5	85.9	85.9
62.5°	2125.9	1361.4	171.8	119.0	101.3	90.3	81.5	74.9	74.9	77.1	77.1
65°	2359.4	1572.9	204.9	134.4	110.1	85.9	74.9	68.3	68.3	68.3	68.3
67.5°	2744.9	1910.0	218.1	149.8	125.6	85.9	70.5	63.9	61.7	61.7	59.5
70°	3247.2	2130.3	193.9	156.4	149.8	88.1	66.1	57.3	55.1	55.1	52.9
72.5°	3048.9	1623.6	165.2	152.0	152.0	90.3	63.9	55.1	50.7	48.5	48.5
75°	2095.0	753.4	145.4	141.0	132.2	77.1	59.5	50.7	46.3	41.9	41.9
77.5°	616.8	202.7	121.2	123.4	101.3	63.9	55.1	46.3	41.9	37.5	37.5
80°	145.4	116.8	88.1	90.3	68.3	48.5	44.1	41.9	37.5	33.0	33.0
82.5°	83.7	74.9	61.7	57.3	41.9	33.0	35.2	35.2	33.0	28.6	26.4
85°	41.9	44.1	37.5	33.0	26.4	22.0	22.0	24.2	22.0	17.6	17.6
87.5°	24.2	22.0	24.2	17.6	13.2	11.0	13.2	13.2	13.2	8.8	8.8
90°	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)