

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: P459627

Luminaire Tested: **GAN-SA5A-AMB-U-SL2**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-AMB-U-SL2
Description: GALLEON ROADWAY AND AREA LUMINAIRE
(5) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5143 lumens
Efficiency: N/A
Efficacy: 50.9 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

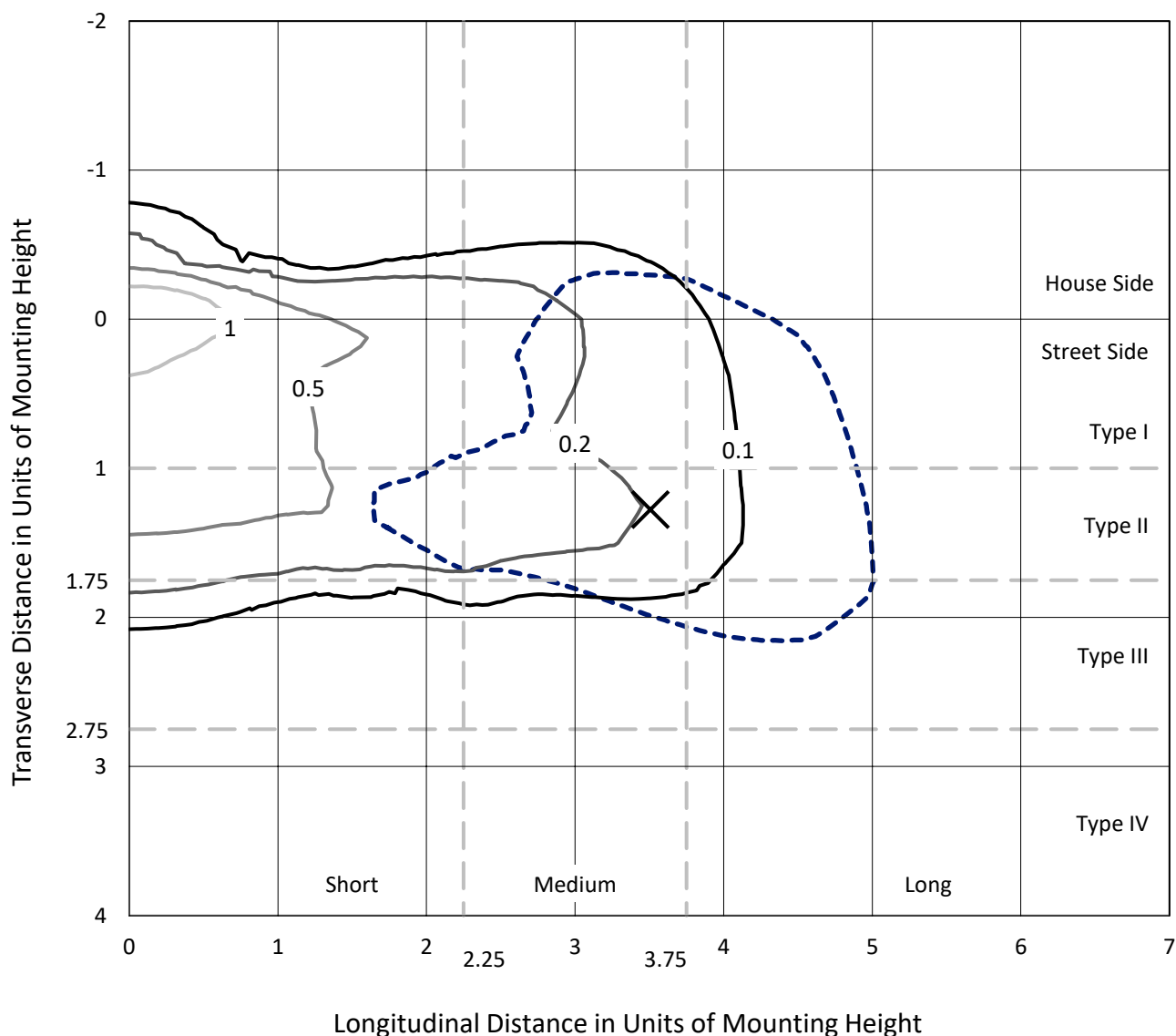
Input Watts (W): 101
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

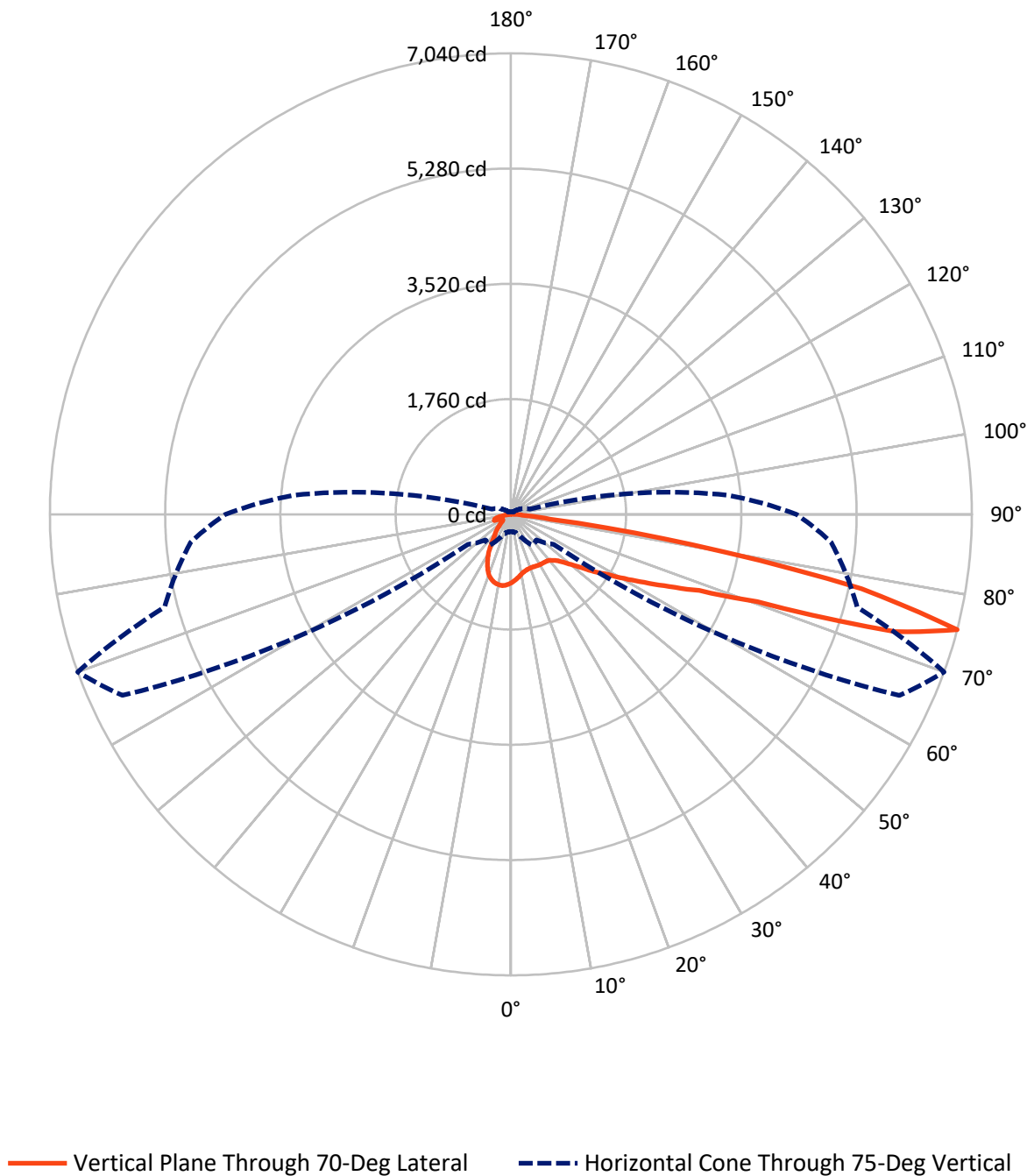
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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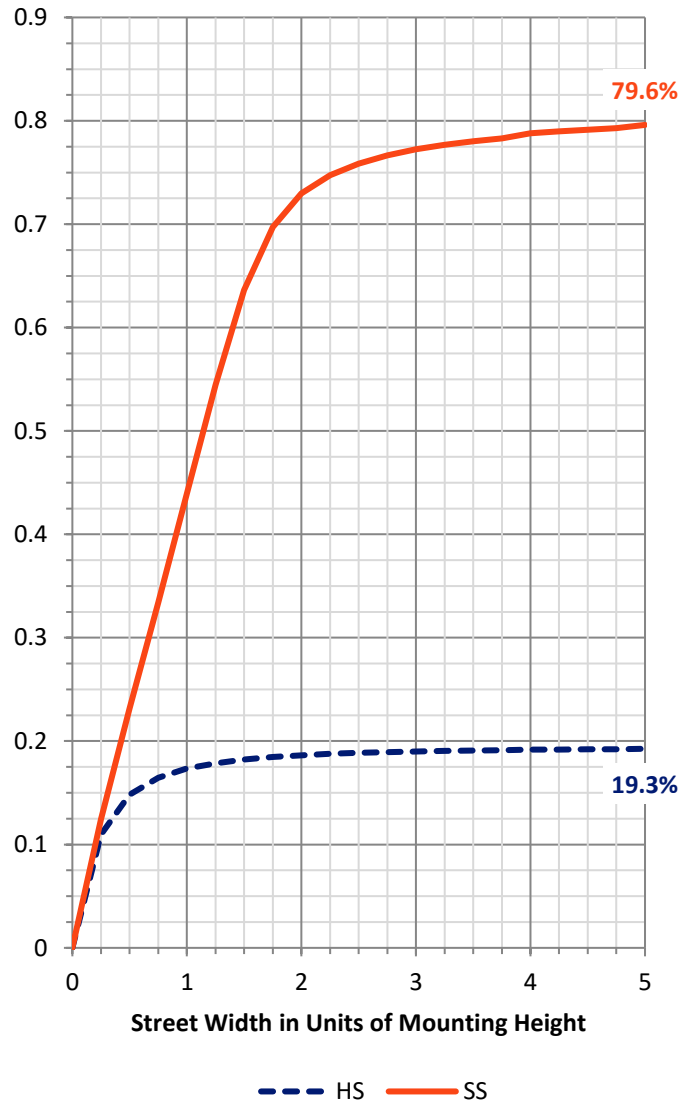
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1003.5	0.0	1003.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4139.5	0.0	4139.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	5143.0	0.0	5143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	1.8
10°-20°	230.1	4.5
20°-30°	309.5	6.0
30°-40°	407.1	7.9
40°-50°	580.8	11.3
50°-60°	904.7	17.6
60°-70°	1181.1	23.0
70°-80°	1255.2	24.4
80°-90°	179.7	3.5
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°	5143.0	100.0
0°-180°	5143.0	100.0

Coefficient of Utilization



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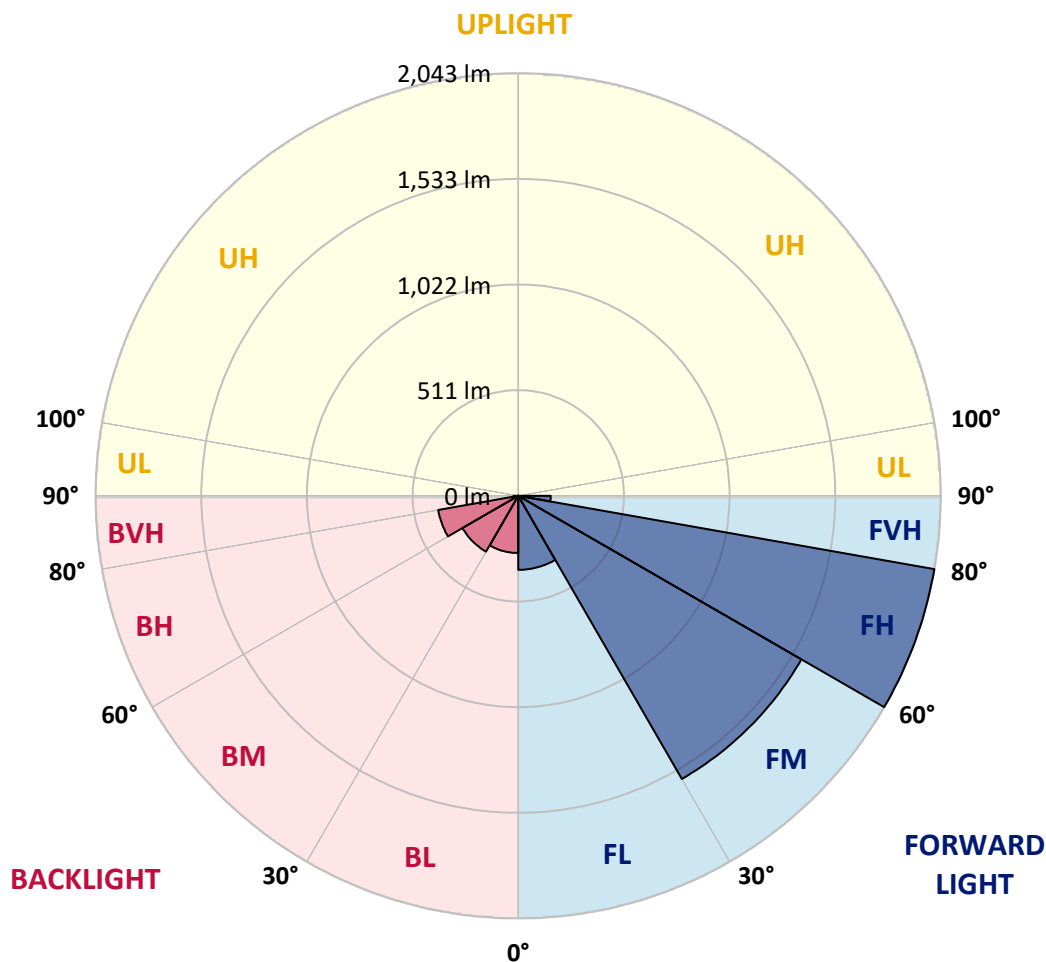
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.8	7.0			
FM	(30°-60°)	1581.1	30.7			
FH	(60°-80°)	2043.4	39.7			G2/5000
FVH	(80°-90°)	157.1	3.1			G2/225
BL	(0°-30°)	276.5	5.4	B1/500		
BM	(30°-60°)	311.5	6.1	B1/1000		
BH	(60°-80°)	392.8	7.6	B1/500		G1/500
BVH	(80°-90°)	22.6	0.4			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3
2.5°	980.2	980.2	986.8	986.8	995.6	997.8	1006.6	1011.0	1015.4	1022.0	1035.2
5°	909.7	907.5	914.1	925.1	936.1	947.1	962.6	978.0	984.6	995.6	1017.6
7.5°	856.8	856.8	861.2	867.8	883.3	896.5	920.7	938.3	953.8	969.2	1000.0
10°	817.2	817.2	821.6	828.2	843.6	854.6	876.7	907.5	920.7	942.7	982.4
12.5°	779.7	784.1	786.3	795.2	806.2	821.6	843.6	876.7	898.7	925.1	978.0
15°	762.1	762.1	764.3	770.9	781.9	797.4	823.8	859.0	883.3	914.1	980.2
17.5°	757.7	755.5	753.3	755.5	766.5	781.9	808.4	848.0	874.5	909.7	991.2
20°	759.9	757.7	755.5	751.1	755.5	770.9	804.0	843.6	870.1	907.5	1008.8
22.5°	770.9	770.9	766.5	757.7	755.5	766.5	801.8	843.6	872.3	909.7	1026.4
25°	801.8	799.6	795.2	777.5	764.3	768.7	801.8	848.0	876.7	914.1	1041.9
27.5°	834.8	834.8	830.4	815.0	788.6	777.5	806.2	854.6	883.3	918.5	1059.5
30°	887.7	885.5	881.1	863.4	830.4	795.2	815.0	861.2	887.7	920.7	1074.9
32.5°	951.5	951.5	953.8	931.7	883.3	826.0	823.8	865.6	889.9	922.9	1092.5
35°	1026.4	1028.6	1035.2	1017.6	958.2	872.3	845.8	876.7	894.3	925.1	1110.1
37.5°	1081.5	1083.7	1107.9	1112.3	1041.9	933.9	881.1	898.7	903.1	929.5	1127.8
40°	1145.4	1145.4	1180.6	1207.1	1160.8	1019.8	929.5	925.1	922.9	947.1	1149.8
42.5°	1215.9	1224.7	1255.5	1299.6	1279.7	1119.0	997.8	971.4	960.4	978.0	1185.0
45°	1281.9	1286.4	1343.6	1394.3	1396.5	1253.3	1094.7	1044.1	1013.2	1033.0	1248.9
47.5°	1354.6	1361.2	1431.7	1513.2	1528.6	1396.5	1204.9	1134.4	1094.7	1114.5	1341.4
50°	1460.4	1471.4	1530.8	1630.0	1671.8	1566.1	1345.8	1259.9	1215.9	1224.7	1471.4
52.5°	1630.0	1627.8	1656.4	1753.3	1854.6	1753.3	1535.3	1414.1	1354.6	1367.9	1638.8
55°	1731.3	1729.1	1768.7	1874.5	2059.5	1989.0	1744.5	1596.9	1541.9	1535.3	1832.6
57.5°	1641.0	1645.4	1713.7	1878.9	2198.3	2356.8	1973.6	1819.4	1724.7	1735.7	2068.3
60°	1372.3	1345.8	1422.9	1647.6	2156.4	2768.7	2299.6	2088.1	1989.0	1969.2	2365.7
62.5°	925.1	933.9	984.6	1130.0	1845.8	2881.1	3132.2	2422.9	2286.4	2251.1	2645.4
65°	696.0	693.8	696.0	720.3	1000.0	2775.4	3993.4	2867.9	2654.2	2537.5	2940.6
67.5°	581.5	574.9	572.7	627.8	623.4	1746.7	4279.8	3878.9	3105.7	2859.1	3226.9
70°	493.4	480.2	475.8	563.9	579.3	618.9	4246.7	5760.0	3989.0	3308.4	3605.8
72.5°	374.5	372.2	381.1	480.2	570.5	541.9	2557.3	6583.7	6134.4	4176.2	4387.7
75°	266.5	264.3	288.5	389.9	579.3	550.7	799.6	6544.1	7039.7	5473.6	4909.7
77.5°	176.2	174.0	196.0	279.7	544.1	552.9	522.0	4737.9	5473.6	5127.8	4024.3
80°	116.7	112.3	127.8	193.8	436.1	592.5	511.0	2345.8	2790.8	2374.5	1337.0
82.5°	68.3	66.1	81.5	134.4	286.3	585.9	515.4	737.9	603.5	308.4	167.4
85°	35.2	37.4	52.9	81.5	185.0	517.6	550.7	378.9	176.2	125.6	83.7
87.5°	11.0	15.4	28.6	44.1	103.5	356.8	489.0	293.0	127.8	81.5	46.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3
2.5°	1039.7	1046.3	1059.5	1074.9	1090.3	1096.9	1105.7	1107.9	1112.3	1114.5	1112.3
5°	1033.0	1048.5	1077.1	1096.9	1110.1	1107.9	1105.7	1099.1	1096.9	1094.7	1090.3
7.5°	1019.8	1046.3	1088.1	1105.7	1096.9	1070.5	1048.5	1022.0	1013.2	1002.2	1000.0
10°	1013.2	1050.7	1092.5	1090.3	1055.1	1004.4	960.4	918.5	889.9	872.3	863.4
12.5°	1019.8	1066.1	1101.3	1061.7	1000.0	922.9	845.8	781.9	718.1	696.0	685.0
15°	1039.7	1090.3	1101.3	1024.2	929.5	819.4	702.6	601.3	526.4	489.0	482.4
17.5°	1063.9	1110.1	1085.9	978.0	848.0	689.4	550.7	420.7	363.4	348.0	345.8
20°	1092.5	1134.4	1061.7	920.7	742.3	555.1	374.5	308.4	301.8	304.0	306.2
22.5°	1116.7	1145.4	1022.0	843.6	616.7	372.2	262.1	248.9	262.1	279.7	284.1
25°	1134.4	1138.8	978.0	746.7	473.6	237.9	207.0	204.8	224.7	255.5	264.3
27.5°	1145.4	1116.7	918.5	643.2	290.8	185.0	169.6	176.2	191.6	213.7	218.1
30°	1152.0	1094.7	861.2	535.2	185.0	156.4	154.2	158.6	165.2	176.2	178.4
32.5°	1154.2	1072.7	799.6	398.7	156.4	143.2	143.2	147.6	149.8	156.4	156.4
35°	1149.8	1046.3	737.9	251.1	143.2	138.8	136.6	136.6	136.6	138.8	138.8
37.5°	1138.8	1019.8	665.2	167.4	136.6	132.2	130.0	130.0	127.8	127.8	127.8
40°	1132.2	997.8	596.9	145.4	130.0	127.8	125.6	121.1	118.9	118.9	118.9
42.5°	1138.8	986.8	513.2	138.8	125.6	123.3	118.9	114.5	114.5	114.5	114.5
45°	1167.4	989.0	407.5	134.4	123.3	118.9	112.3	107.9	107.9	110.1	110.1
47.5°	1222.5	1008.8	315.0	130.0	118.9	114.5	105.7	103.5	103.5	103.5	103.5
50°	1306.2	1048.5	248.9	125.6	116.7	110.1	103.5	99.1	99.1	99.1	96.9
52.5°	1425.1	1121.2	196.0	123.3	114.5	107.9	99.1	94.7	92.5	92.5	90.3
55°	1590.3	1235.7	180.6	123.3	110.1	103.5	94.7	88.1	85.9	83.7	83.7
57.5°	1810.6	1398.7	178.4	121.1	103.5	96.9	88.1	81.5	79.3	79.3	77.1
60°	2079.3	1616.8	180.6	116.7	99.1	90.3	81.5	77.1	72.7	72.7	72.7
62.5°	2381.1	1854.6	180.6	114.5	96.9	85.9	77.1	70.5	68.3	66.1	66.1
65°	2687.2	2145.4	193.8	112.3	92.5	77.1	70.5	66.1	61.7	61.7	61.7
67.5°	3024.3	2500.0	264.3	112.3	88.1	70.5	63.9	59.5	57.3	57.3	57.3
70°	3460.4	3085.9	400.9	141.0	90.3	66.1	57.3	55.1	52.9	52.9	52.9
72.5°	4356.9	3762.1	319.4	196.0	105.7	59.5	50.7	48.5	48.5	46.3	46.3
75°	4361.3	3337.0	304.0	209.3	114.5	55.1	46.3	44.1	41.9	41.9	41.9
77.5°	3224.7	2178.4	259.9	163.0	99.1	48.5	41.9	39.6	37.4	37.4	37.4
80°	951.5	561.7	163.0	118.9	63.9	39.6	35.2	33.0	30.8	30.8	30.8
82.5°	163.0	147.6	74.9	63.9	39.6	30.8	28.6	26.4	24.2	24.2	24.2
85°	79.3	77.1	41.9	35.2	26.4	22.0	22.0	19.8	17.6	17.6	17.6
87.5°	48.5	44.1	30.8	19.8	15.4	11.0	13.2	11.0	11.0	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)