

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: P459615

Luminaire Tested: **GAN-SA3A-AMB-U-SL4**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-AMB-U-SL4
Description: GALLEON ROADWAY AND AREA LUMINAIRE
(3) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3226 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

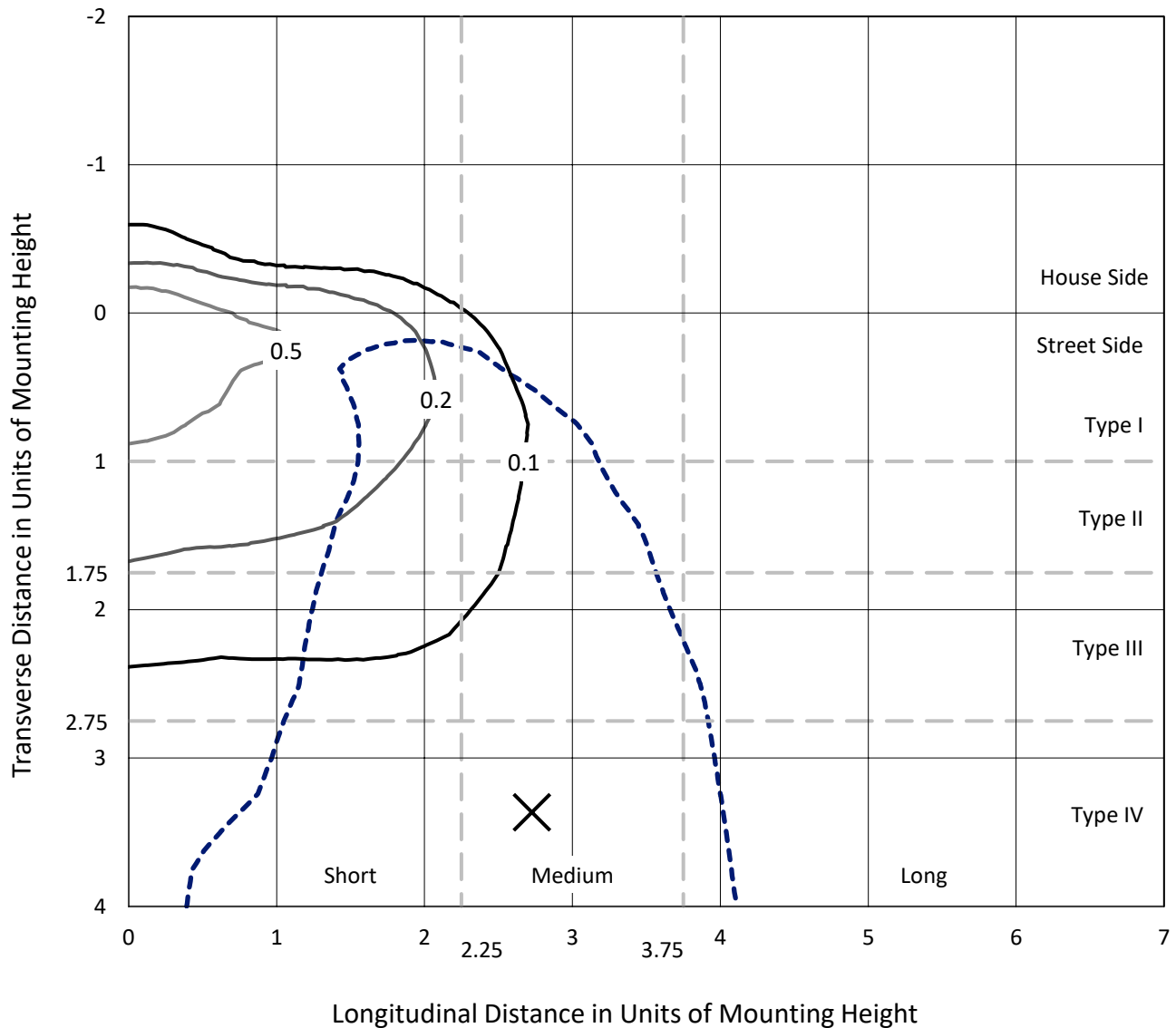
Input Watts (W): 61.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

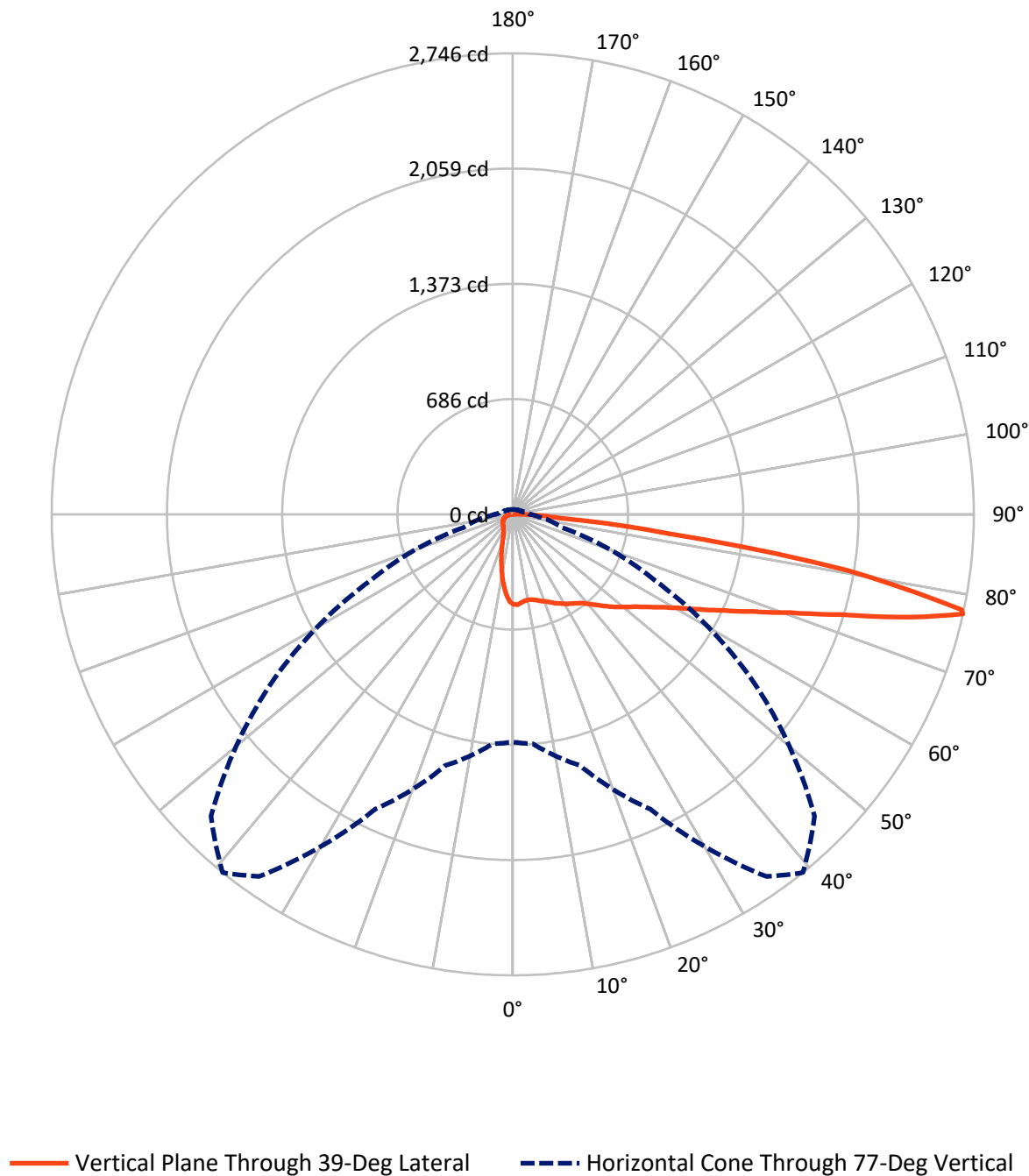
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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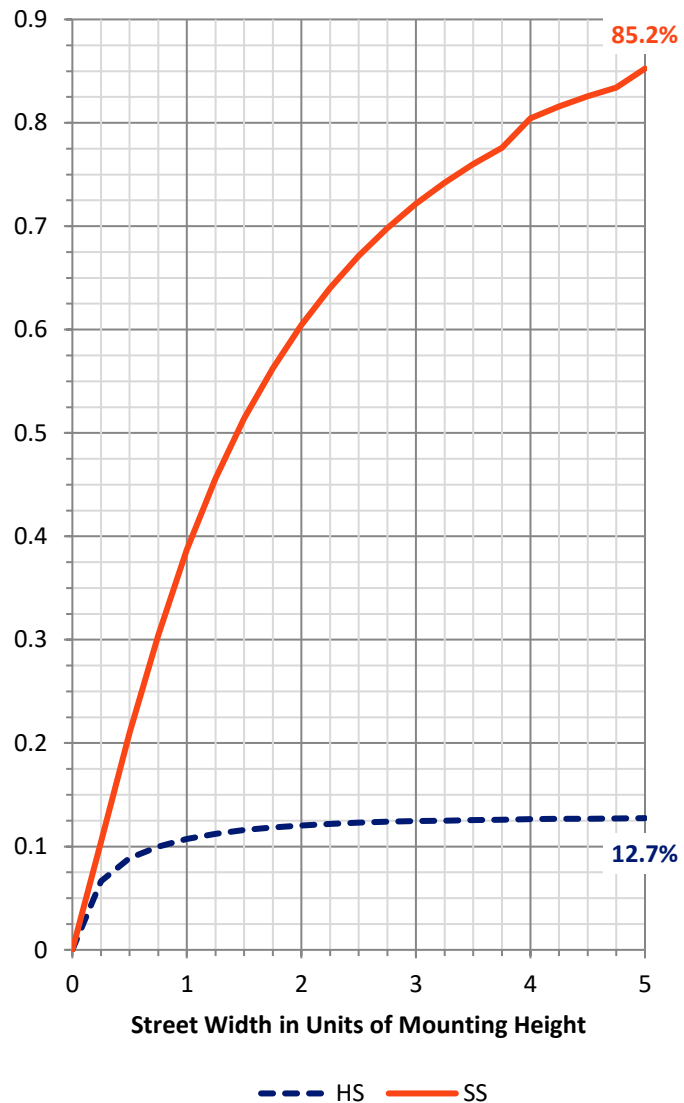
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	416.2	0.0	416.2
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	2809.8	0.0	2809.8
	% Fixture	87.1	0.0	87.1
Total	Lumens	3226.0	0.0	3226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	1.5
10°-20°	117.5	3.6
20°-30°	179.5	5.6
30°-40°	258.1	8.0
40°-50°	374.8	11.6
50°-60°	537.9	16.7
60°-70°	740.9	23.0
70°-80°	799.4	24.8
80°-90°	171.0	5.3
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°	3226.0	100.0
0°-180°	3226.0	100.0

Coefficient of Utilization



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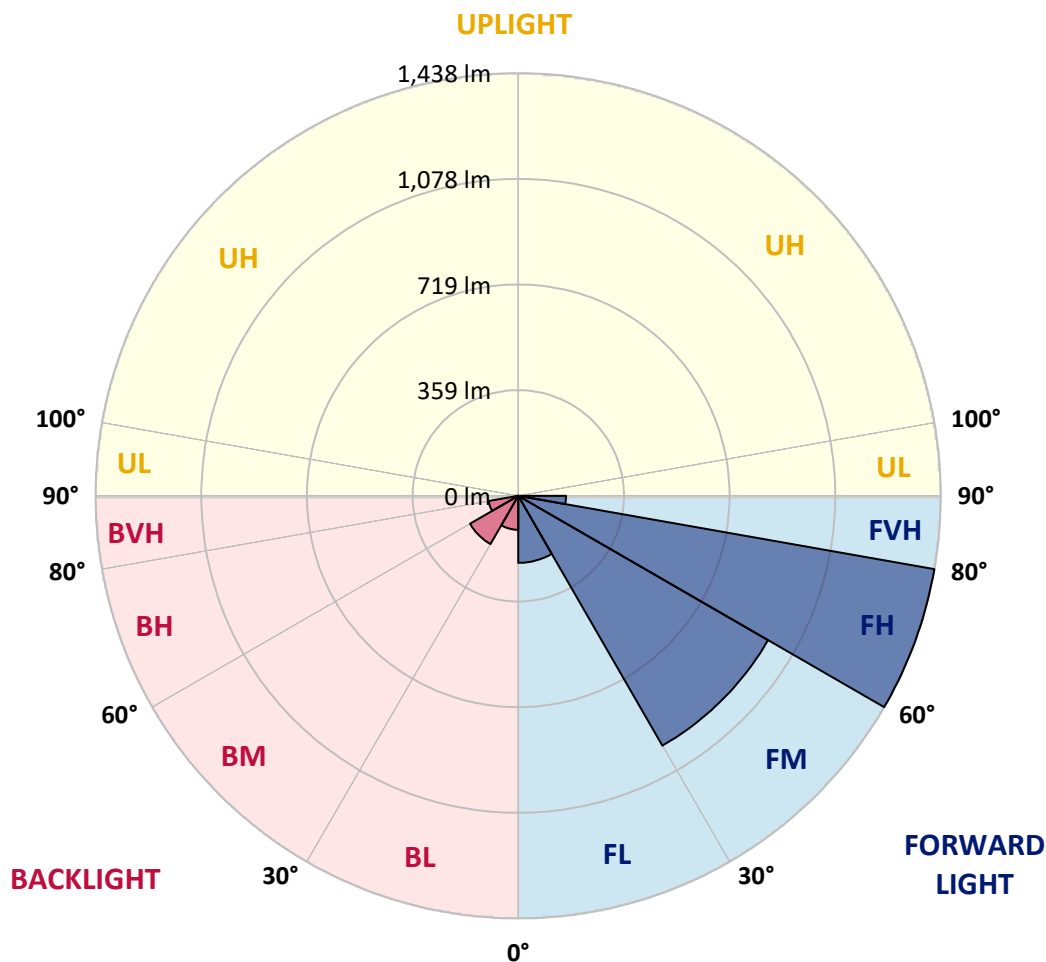
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	228.2	7.1			
FM	(30°-60°)	981.4	30.4			
FH	(60°-80°)	1437.8	44.6			G1/1800
FVH	(80°-90°)	162.4	5.0			G2/225
BL	(0°-30°)	115.6	3.6	B1/500		
BM	(30°-60°)	189.4	5.9	B0/220		
BH	(60°-80°)	102.6	3.2	B0/110		G0/110
BVH	(80°-90°)	8.6	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1
2.5°	541.9	537.5	537.5	541.9	539.0	539.0	536.1	539.0	536.1	533.2	536.1
5°	534.6	531.7	530.3	534.6	531.7	528.8	531.7	530.3	528.8	523.0	523.0
7.5°	521.6	518.7	518.7	523.0	524.5	520.1	521.6	523.0	518.7	512.9	514.4
10°	510.0	508.6	511.5	517.3	520.1	517.3	520.1	518.7	512.9	507.1	505.7
12.5°	501.3	499.9	504.2	515.8	521.6	521.6	523.0	518.7	514.4	507.1	501.3
15°	495.5	495.5	504.2	518.7	527.4	530.3	531.7	528.8	518.7	508.6	501.3
17.5°	498.4	497.0	508.6	525.9	536.1	543.3	543.3	539.0	525.9	512.9	504.2
20°	505.7	502.8	517.3	539.0	552.0	553.5	556.4	547.7	534.6	520.1	510.0
22.5°	508.6	515.8	531.7	556.4	563.6	568.0	568.0	559.3	540.4	530.3	518.7
25°	531.7	533.2	552.0	573.8	581.0	586.8	583.9	565.1	549.1	543.3	533.2
27.5°	556.4	557.8	576.7	592.6	596.9	601.3	602.7	576.7	560.7	559.3	546.2
30°	578.1	583.9	602.7	614.3	614.3	618.7	617.2	594.0	576.7	579.6	566.5
32.5°	615.8	614.3	633.2	634.6	627.4	634.6	634.6	608.5	596.9	610.0	589.7
35°	647.7	653.4	662.1	654.9	644.8	650.5	653.4	628.8	623.0	649.1	627.4
37.5°	691.1	686.8	691.1	678.1	663.6	670.8	678.1	656.3	659.2	696.9	669.4
40°	724.4	717.2	720.1	702.7	688.2	702.7	710.0	689.7	702.7	763.6	730.2
42.5°	752.0	746.2	740.4	730.2	718.6	737.5	749.1	733.1	760.7	837.5	805.6
45°	770.8	766.5	757.8	756.3	757.8	780.9	795.4	782.4	820.1	930.2	889.6
47.5°	782.4	778.1	779.5	782.4	794.0	824.4	850.5	837.5	898.3	1027.3	969.3
50°	798.3	791.1	792.5	817.2	834.6	866.4	908.5	902.7	982.3	1130.1	1056.2
52.5°	818.6	807.0	807.0	850.5	878.0	914.2	967.9	975.1	1069.3	1235.9	1144.6
55°	851.9	837.5	827.3	886.7	934.5	973.7	1036.0	1067.8	1163.5	1346.0	1225.8
57.5°	888.2	873.7	857.7	933.1	996.8	1043.2	1114.2	1160.6	1270.7	1444.5	1283.7
60°	944.7	918.6	902.7	992.5	1083.8	1131.6	1218.5	1277.9	1383.7	1534.4	1335.9
62.5°	985.2	965.0	960.6	1067.8	1191.0	1246.0	1328.6	1390.9	1488.0	1621.3	1380.8
65°	1027.3	1015.7	1017.1	1149.0	1318.5	1379.3	1469.2	1535.8	1622.8	1701.0	1385.1
67.5°	1086.7	1075.1	1099.7	1247.5	1466.3	1546.0	1637.2	1695.2	1750.3	1714.0	1306.9
70°	1164.9	1150.4	1195.3	1366.3	1650.3	1753.2	1857.5	1919.8	1812.6	1669.1	1056.2
72.5°	1246.0	1235.9	1309.8	1535.8	1908.2	2040.0	2158.8	2124.1	1843.0	1431.5	688.2
75°	1344.6	1347.5	1466.3	1754.6	2319.7	2445.7	2545.7	2202.3	1556.1	846.1	262.2
77°	1356.2	1372.1	1548.9	1937.2	2632.6	2745.6	2541.3	1758.9	936.0	302.8	147.8
77.5°	1308.3	1322.8	1530.0	1963.2	2670.3	2732.6	2461.7	1643.0	750.5	243.4	130.4
80°	975.1	960.6	1186.6	1637.2	2145.8	2018.3	1473.5	637.5	218.8	126.1	79.7
82.5°	385.4	411.5	554.9	807.0	1049.0	921.5	552.0	278.2	131.8	68.1	33.3
85°	178.2	191.3	208.6	214.4	270.9	279.6	207.2	257.9	95.6	31.9	20.3
87.5°	130.4	136.2	153.6	136.2	131.8	124.6	152.1	281.1	47.8	18.8	10.1
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°	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1
2.5°	531.7	527.4	528.8	527.4	524.5	521.6	518.7	515.8	517.3	517.3	512.9
5°	520.1	514.4	511.5	504.2	495.5	486.8	476.7	469.4	463.6	460.7	463.6
7.5°	508.6	501.3	495.5	478.1	463.6	439.0	423.1	401.3	398.4	395.5	392.6
10°	499.9	494.1	479.6	456.4	426.0	397.0	360.8	337.6	323.1	314.4	317.3
12.5°	494.1	486.8	463.6	427.4	388.3	344.8	304.3	273.8	256.5	244.9	242.0
15°	492.6	479.6	446.3	398.4	346.3	297.0	256.5	220.2	192.7	184.0	181.1
17.5°	492.6	475.2	430.3	368.0	307.2	252.1	207.2	173.9	150.7	142.0	139.1
20°	495.5	473.8	411.5	337.6	268.0	207.2	168.1	140.5	127.5	121.7	121.7
22.5°	499.9	472.3	391.2	304.3	230.4	173.9	139.1	123.2	117.4	113.0	113.0
25°	508.6	470.9	373.8	273.8	197.0	149.2	124.6	114.5	108.7	107.2	107.2
27.5°	520.1	472.3	356.4	244.9	166.6	131.8	114.5	108.7	105.8	104.3	104.3
30°	531.7	475.2	337.6	213.0	144.9	118.8	107.2	102.9	101.4	100.0	100.0
32.5°	544.8	478.1	315.9	186.9	129.0	108.7	101.4	98.5	98.5	97.1	95.6
35°	566.5	483.9	291.2	162.3	115.9	101.4	97.1	94.2	94.2	92.7	92.7
37.5°	596.9	491.2	266.6	144.9	107.2	95.6	91.3	91.3	89.8	89.8	88.4
40°	641.9	511.5	246.3	130.4	100.0	91.3	88.4	86.9	86.9	85.5	85.5
42.5°	692.6	536.1	227.5	120.3	95.6	86.9	84.0	84.0	84.0	82.6	81.1
45°	752.0	559.3	210.1	113.0	91.3	84.0	81.1	81.1	79.7	78.2	78.2
47.5°	815.7	588.2	198.5	108.7	89.8	82.6	79.7	76.8	76.8	75.3	75.3
50°	879.5	612.9	188.4	105.8	88.4	79.7	76.8	75.3	73.9	71.0	71.0
52.5°	940.3	639.0	185.5	102.9	85.5	78.2	73.9	72.4	71.0	68.1	68.1
55°	992.5	669.4	188.4	101.4	84.0	75.3	71.0	69.5	68.1	65.2	65.2
57.5°	1030.2	685.3	189.8	101.4	82.6	71.0	66.6	68.1	65.2	63.8	63.8
60°	1069.3	699.8	188.4	101.4	81.1	66.6	62.3	65.2	63.8	62.3	62.3
62.5°	1095.4	694.0	181.1	101.4	79.7	63.8	59.4	63.8	65.2	62.3	63.8
65°	1057.7	628.8	159.4	98.5	79.7	60.9	55.1	62.3	66.6	65.2	65.2
67.5°	921.5	475.2	133.3	92.7	76.8	59.4	50.7	56.5	62.3	60.9	62.3
70°	653.4	286.9	110.1	82.6	69.5	56.5	47.8	47.8	49.3	50.7	52.2
72.5°	339.0	156.5	89.8	72.4	60.9	50.7	43.5	40.6	40.6	40.6	42.0
75°	149.2	102.9	73.9	59.4	50.7	43.5	39.1	34.8	34.8	33.3	33.3
77°	104.3	81.1	60.9	49.3	42.0	36.2	34.8	30.4	30.4	29.0	29.0
77.5°	94.2	75.3	59.4	46.4	40.6	34.8	33.3	29.0	29.0	29.0	29.0
80°	63.8	59.4	44.9	34.8	31.9	27.5	26.1	24.6	23.2	23.2	23.2
82.5°	37.7	43.5	31.9	24.6	23.2	20.3	18.8	18.8	18.8	17.4	15.9
85°	23.2	31.9	20.3	15.9	15.9	13.0	13.0	11.6	11.6	10.1	10.1
87.5°	10.1	20.3	11.6	7.2	5.8	4.3	5.8	4.3	4.3	2.9	4.3
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)