

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: P319905

Luminaire Tested: **GAN-SA1A-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3877 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

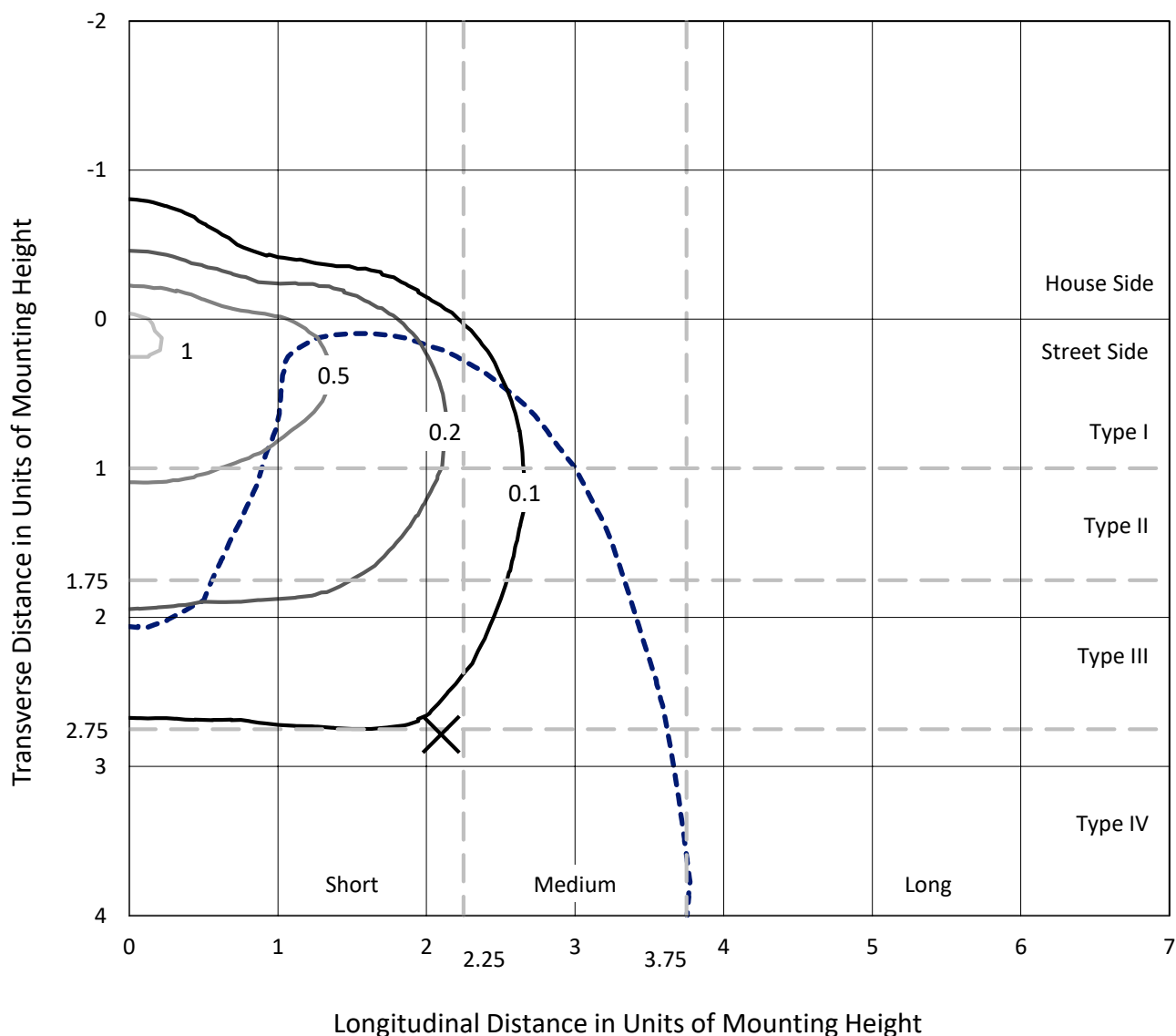
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

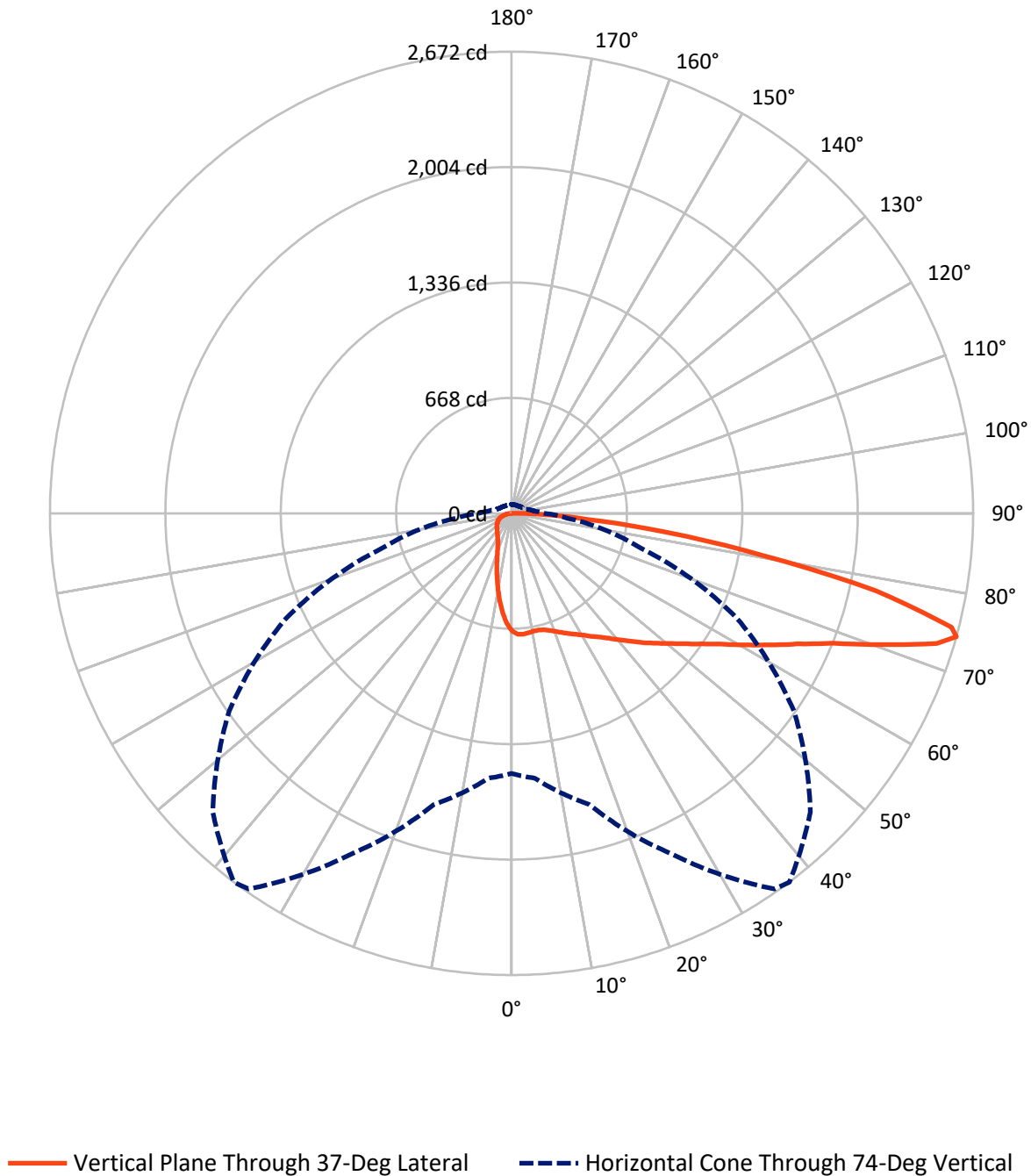
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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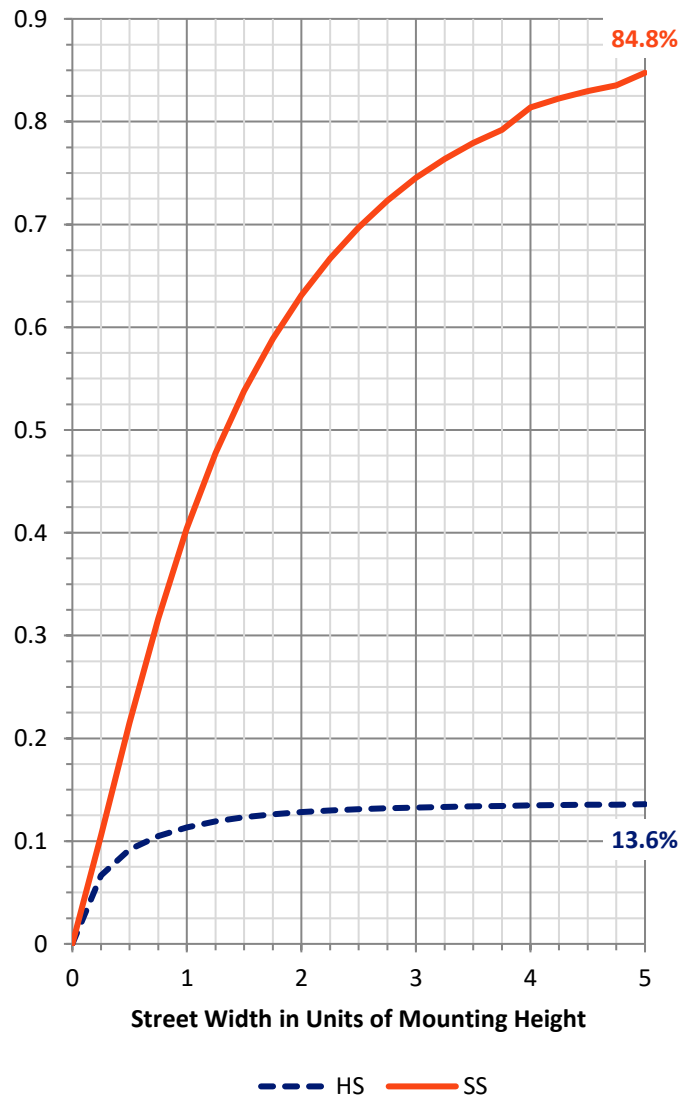
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	533.4	0.0	533.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	3343.5	0.0	3343.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	3877.0	0.0	3877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	1.6
10°-20°	154.2	4.0
20°-30°	237.6	6.1
30°-40°	345.5	8.9
40°-50°	508.5	13.1
50°-60°	714.1	18.4
60°-70°	903.8	23.3
70°-80°	795.8	20.5
80°-90°	157.4	4.1
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°	3877.0	100.0
0°-180°	3877.0	100.0

Coefficient of Utilization



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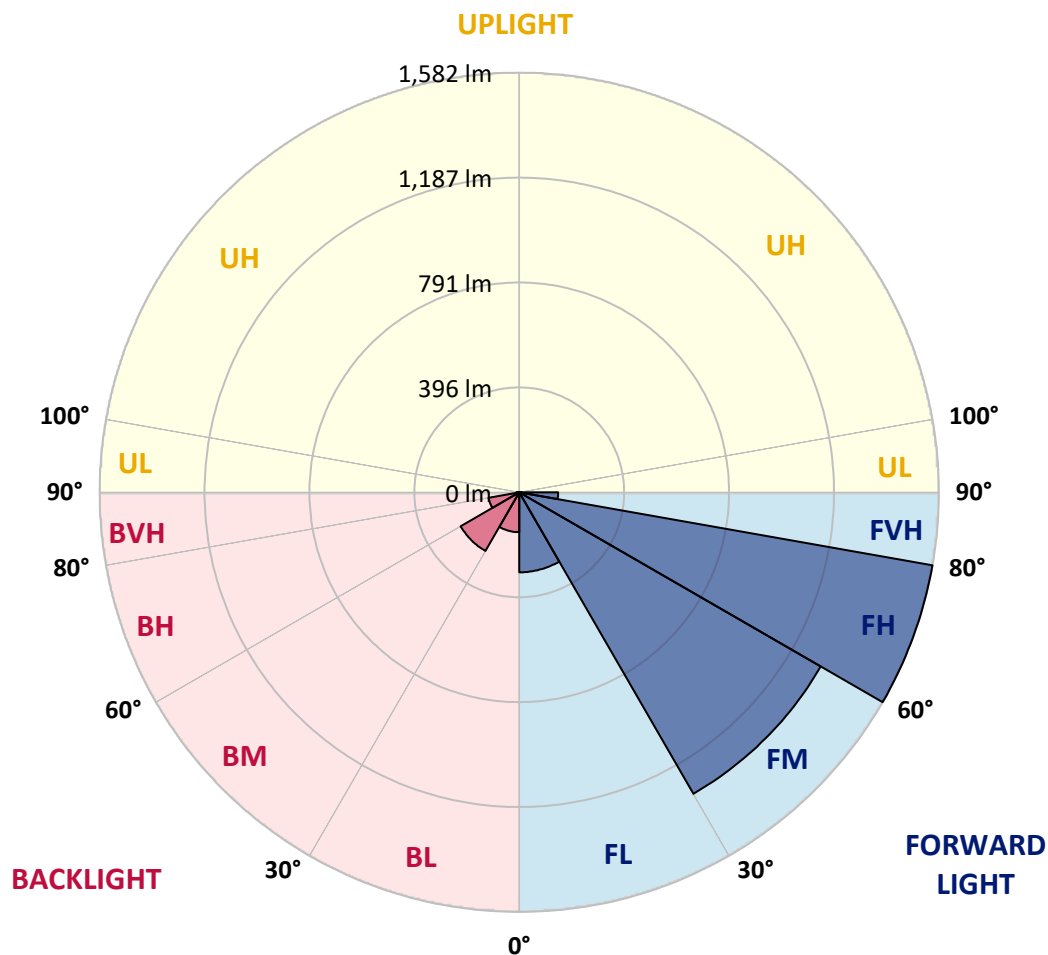
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	301.7	7.8			
FM	(30°-60°)	1312.8	33.9			
FH	(60°-80°)	1582.4	40.8			G1/1800
FVH	(80°-90°)	146.7	3.8			G2/225
BL	(0°-30°)	150.3	3.9	B1/500		
BM	(30°-60°)	255.3	6.6	B1/1000		
BH	(60°-80°)	117.3	3.0	B1/500		G1/500
BVH	(80°-90°)	10.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1
2.5°	706.5	706.6	706.5	705.4	702.8	700.6	698.8	696.2	690.5	686.1	679.6
5°	713.2	712.3	711.8	709.7	705.6	703.2	699.8	694.9	685.4	676.7	666.0
7.5°	710.0	709.1	707.8	705.4	700.7	698.7	693.9	687.5	676.1	664.7	649.4
10°	700.3	700.0	699.5	699.0	695.0	693.4	689.0	682.2	671.0	657.0	639.1
12.5°	689.5	690.2	692.4	695.3	693.5	692.7	689.9	685.3	673.8	658.8	637.2
15°	682.7	684.6	690.5	698.0	699.5	699.2	698.5	695.5	683.4	666.7	641.6
17.5°	680.4	683.5	694.7	707.1	711.5	712.5	712.7	707.6	694.0	676.4	646.1
20°	684.6	688.6	705.0	722.0	729.0	729.5	728.3	719.3	704.1	684.8	648.6
22.5°	697.5	701.0	721.5	740.7	748.7	749.5	745.8	732.1	714.8	694.6	652.0
25°	722.2	726.5	747.0	766.3	770.4	770.5	765.2	748.3	728.7	708.4	659.3
27.5°	754.4	758.8	777.2	796.1	793.9	792.6	785.4	768.5	746.9	727.4	672.5
30°	790.3	795.1	812.6	826.0	820.8	818.3	812.4	790.6	772.2	753.3	692.5
32.5°	827.5	831.8	847.1	856.3	849.7	848.6	839.8	819.8	805.1	792.9	725.0
35°	865.6	868.7	883.7	888.9	880.2	879.9	877.4	859.1	849.9	855.6	772.3
37.5°	904.5	905.3	918.1	918.4	915.8	916.9	919.5	908.0	910.6	928.5	833.7
40°	939.2	941.4	950.6	953.5	958.0	961.8	974.8	967.3	987.4	1019.1	910.2
42.5°	964.9	969.1	984.0	991.3	1006.0	1012.0	1030.3	1037.2	1077.7	1125.2	1001.2
45°	986.6	993.1	1017.0	1032.2	1056.9	1067.4	1093.6	1117.0	1179.7	1240.3	1096.9
47.5°	1010.1	1018.4	1048.3	1077.2	1110.8	1122.7	1170.4	1205.3	1288.5	1356.1	1187.2
50°	1044.6	1051.0	1080.3	1125.7	1167.7	1183.0	1248.9	1299.0	1399.1	1466.5	1265.4
52.5°	1092.8	1090.4	1115.1	1178.9	1235.1	1254.0	1332.8	1398.7	1511.3	1566.3	1331.5
55°	1141.3	1137.2	1154.5	1234.4	1313.8	1333.6	1425.1	1498.8	1617.9	1656.2	1382.2
57.5°	1195.2	1187.5	1202.1	1297.1	1403.4	1427.0	1528.5	1605.2	1722.8	1728.8	1414.4
60°	1250.8	1240.3	1256.7	1374.8	1517.1	1545.0	1649.5	1709.0	1821.7	1787.0	1424.8
62.5°	1299.4	1292.1	1317.3	1461.5	1645.4	1676.0	1768.3	1819.4	1919.2	1811.2	1387.4
65°	1341.9	1343.1	1386.8	1559.1	1788.4	1821.0	1904.6	1955.4	1995.9	1796.8	1299.9
67.5°	1392.6	1399.5	1474.1	1687.4	1968.4	2004.1	2102.9	2103.7	2038.8	1712.7	1127.5
70°	1466.5	1480.8	1594.2	1865.5	2224.3	2273.4	2349.6	2190.8	1978.6	1484.6	887.1
72.5°	1532.0	1558.8	1721.8	2069.3	2536.2	2573.5	2494.0	2140.6	1726.9	1112.6	552.7
74°	1505.4	1538.6	1745.1	2169.7	2653.6	2671.5	2445.2	1993.9	1439.8	770.5	321.2
75°	1448.0	1484.1	1711.2	2168.7	2638.8	2628.8	2327.5	1826.3	1185.8	525.5	213.7
77.5°	1168.6	1206.7	1441.9	1858.7	2163.6	2154.2	1787.9	1225.2	519.4	172.3	108.6
80°	679.4	708.5	895.1	1180.4	1459.0	1476.0	1175.8	606.2	204.3	96.8	73.6
82.5°	301.8	321.9	432.4	602.5	880.5	902.4	615.8	317.7	126.2	58.9	44.2
85°	198.0	212.9	262.5	286.9	419.3	434.3	301.4	247.3	83.3	32.4	32.5
87.5°	142.4	156.8	195.0	170.3	192.4	182.2	164.0	228.9	33.5	18.4	10.9
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°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1
2.5°	676.7	674.5	669.6	660.3	655.1	650.7	643.5	639.3	637.4	637.2	638.0
5°	659.9	654.8	642.1	626.6	614.1	602.8	588.7	580.3	574.3	570.7	571.7
7.5°	640.4	632.4	612.5	587.7	567.7	545.7	524.0	511.0	500.9	493.4	494.8
10°	627.0	616.1	587.0	551.2	518.0	486.0	456.1	438.2	424.0	413.1	413.9
12.5°	622.5	607.7	567.4	519.6	473.1	429.4	390.3	362.9	348.2	335.8	336.8
15°	623.2	603.4	551.1	491.2	432.6	377.6	330.2	298.1	278.3	269.7	269.9
17.5°	623.7	598.3	533.8	460.8	392.6	329.3	277.8	245.3	226.6	218.6	218.8
20°	621.9	590.1	512.5	425.8	350.8	284.9	235.0	207.4	193.2	187.1	187.1
22.5°	619.6	580.4	488.5	390.7	309.6	246.4	204.4	183.4	175.2	171.1	171.0
25°	620.7	573.2	463.9	354.7	271.6	215.6	184.1	170.2	164.7	162.1	162.0
27.5°	626.6	569.8	441.3	318.7	238.4	192.6	170.4	160.6	157.1	155.4	155.4
30°	637.2	569.8	417.6	288.2	210.9	175.5	159.9	153.2	150.8	149.7	149.7
32.5°	655.8	572.9	394.8	257.8	188.9	162.1	151.2	146.7	144.8	144.2	144.2
35°	687.8	583.6	372.6	229.2	171.1	151.2	142.8	140.3	138.9	138.8	139.2
37.5°	732.7	605.3	351.7	208.0	158.6	142.3	135.9	133.8	133.0	133.7	134.2
40°	789.2	634.8	332.7	188.9	149.0	135.2	129.5	128.1	127.7	128.6	129.5
42.5°	857.5	674.6	317.1	175.1	141.6	129.2	124.0	122.4	122.0	123.0	124.1
45°	931.4	717.5	306.2	164.8	135.9	124.7	119.2	117.4	116.6	117.2	118.4
47.5°	998.6	758.1	301.8	157.6	130.4	120.9	115.0	112.8	111.4	111.2	112.1
50°	1055.3	788.3	303.9	153.2	126.1	116.6	110.9	108.4	106.4	105.2	105.8
52.5°	1096.5	807.3	305.8	151.3	122.6	112.0	106.4	104.1	101.3	99.3	99.3
55°	1126.4	811.6	301.5	149.8	120.0	106.9	101.3	99.1	96.4	94.1	93.8
57.5°	1138.2	799.3	285.8	147.6	118.3	102.2	96.0	94.4	92.0	89.3	89.2
60°	1122.3	761.4	255.5	143.0	115.9	98.2	90.7	89.6	88.5	85.9	85.8
62.5°	1058.7	678.1	216.3	133.6	111.3	94.0	85.8	86.3	86.4	84.7	84.4
65°	943.3	563.6	178.1	121.3	104.3	88.9	80.7	83.3	84.8	84.5	84.1
67.5°	775.6	438.7	150.9	108.3	95.2	81.9	75.2	78.3	79.5	80.4	80.2
70°	575.6	309.3	124.8	94.6	84.1	73.7	68.1	69.6	68.8	69.9	70.3
72.5°	320.9	185.6	101.7	81.0	72.7	64.2	60.2	60.0	58.2	58.2	58.2
74°	192.6	136.2	89.5	72.5	65.7	57.9	54.5	53.3	51.6	51.8	51.6
75°	154.9	117.0	82.1	66.9	60.8	54.2	50.8	49.2	47.9	47.9	47.8
77.5°	97.8	88.9	66.1	53.3	48.6	44.7	42.3	40.2	40.2	40.0	39.9
80°	73.9	70.7	51.5	40.3	37.3	34.3	32.8	31.8	31.8	32.2	32.1
82.5°	50.7	53.3	36.2	28.1	26.6	24.4	24.2	24.3	23.9	23.4	23.2
85°	37.0	40.0	24.4	17.8	16.3	14.9	16.0	16.5	15.8	14.6	14.1
87.5°	14.2	26.2	13.1	7.4	6.8	5.9	6.8	7.1	7.6	6.0	6.1
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)