

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: P322715

Luminaire Tested: **GAN-SA1B-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3376 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

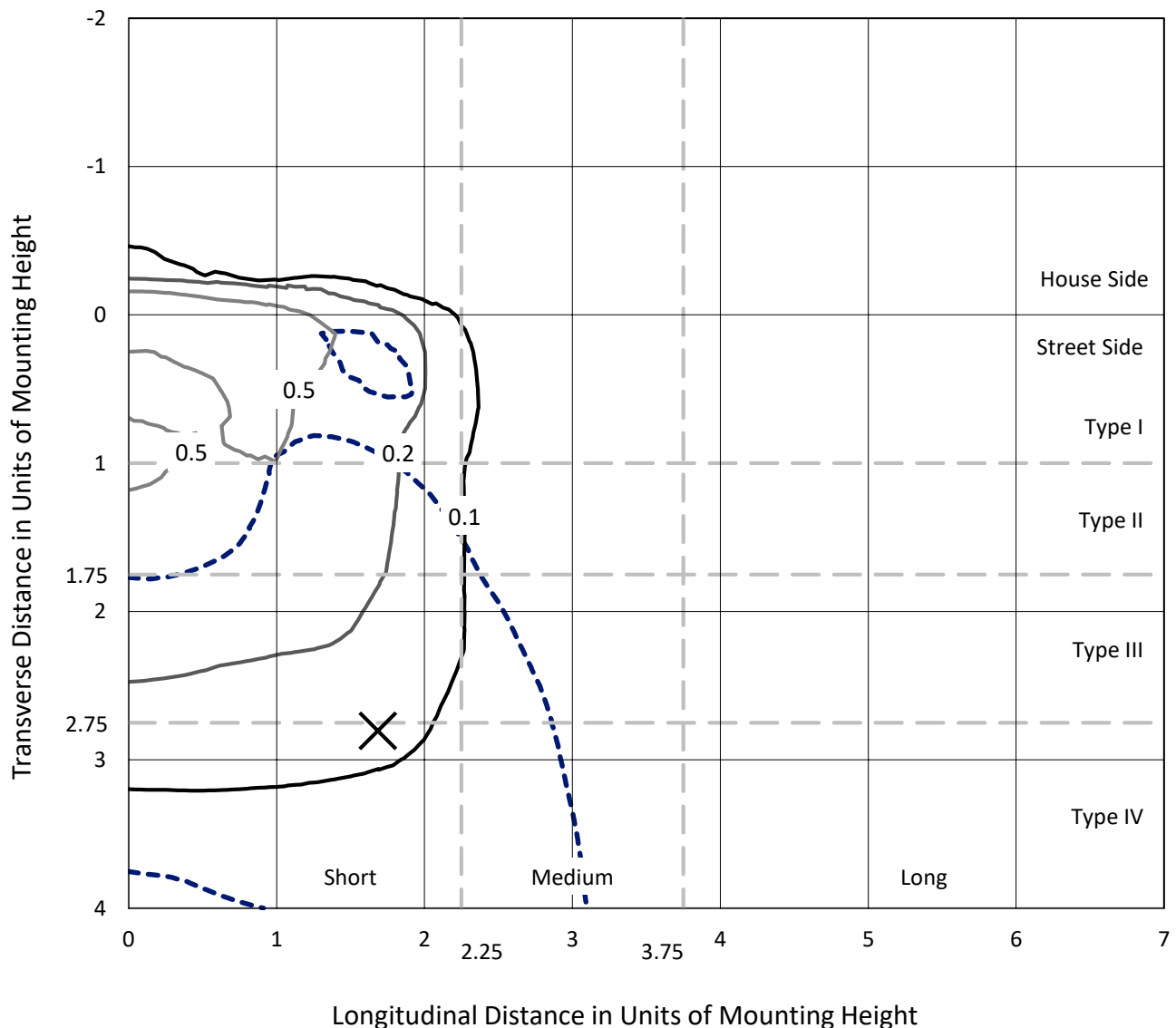
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

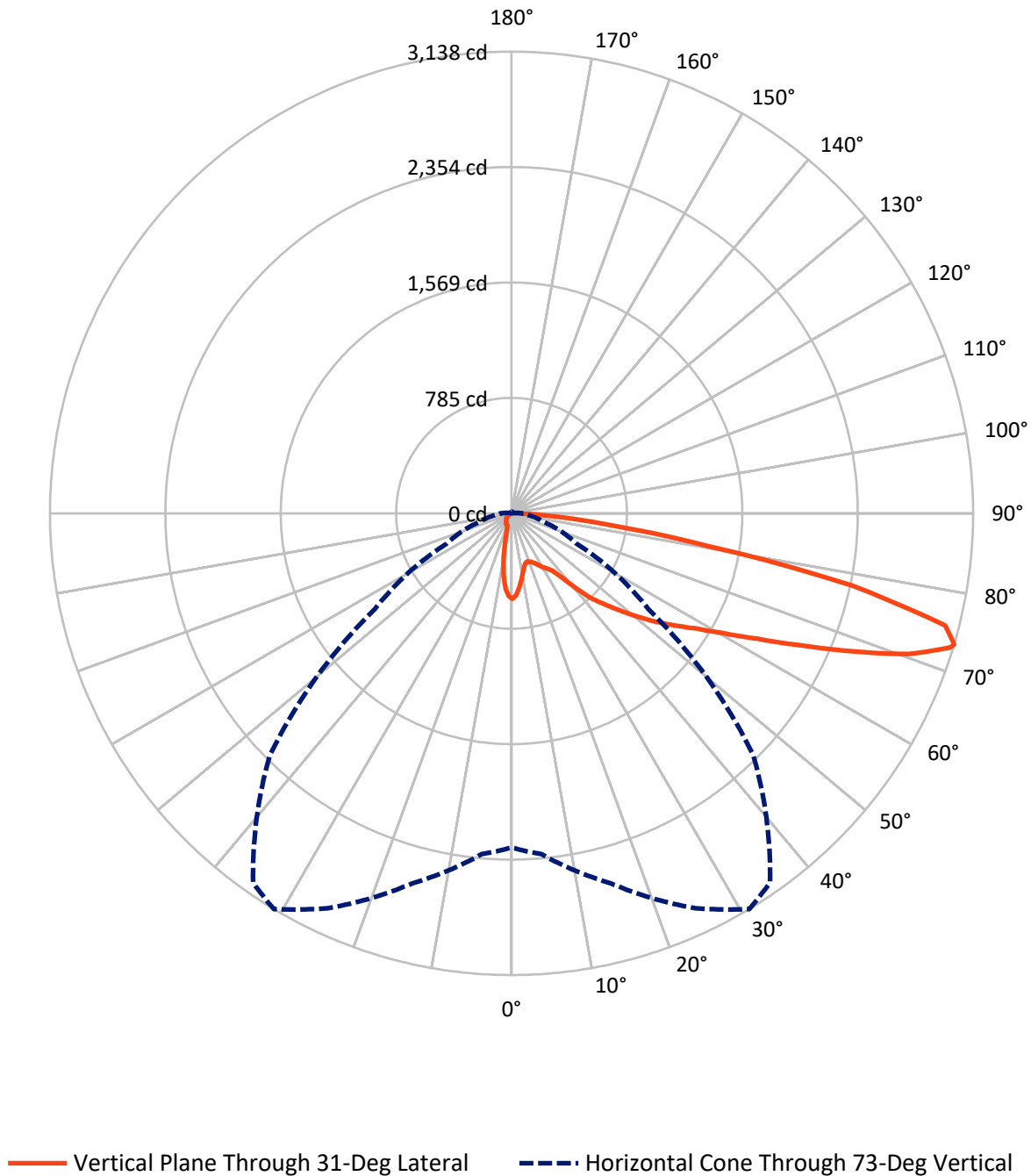
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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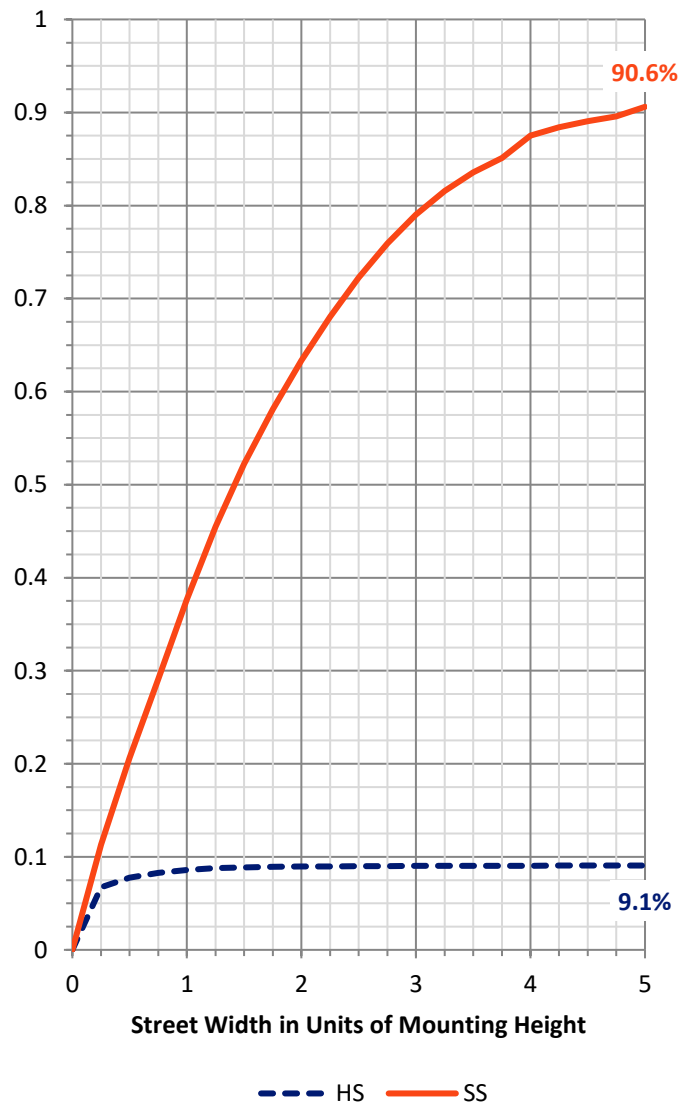
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	307.7	0.0	307.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	3068.3	0.0	3068.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	3376.0	0.0	3376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	1.4
10°-20°	104.6	3.1
20°-30°	156.7	4.6
30°-40°	249.3	7.4
40°-50°	445.1	13.2
50°-60°	690.7	20.5
60°-70°	918.2	27.2
70°-80°	690.7	20.5
80°-90°	72.6	2.1
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°	3376.0	100.0
0°-180°	3376.0	100.0

Coefficient of Utilization



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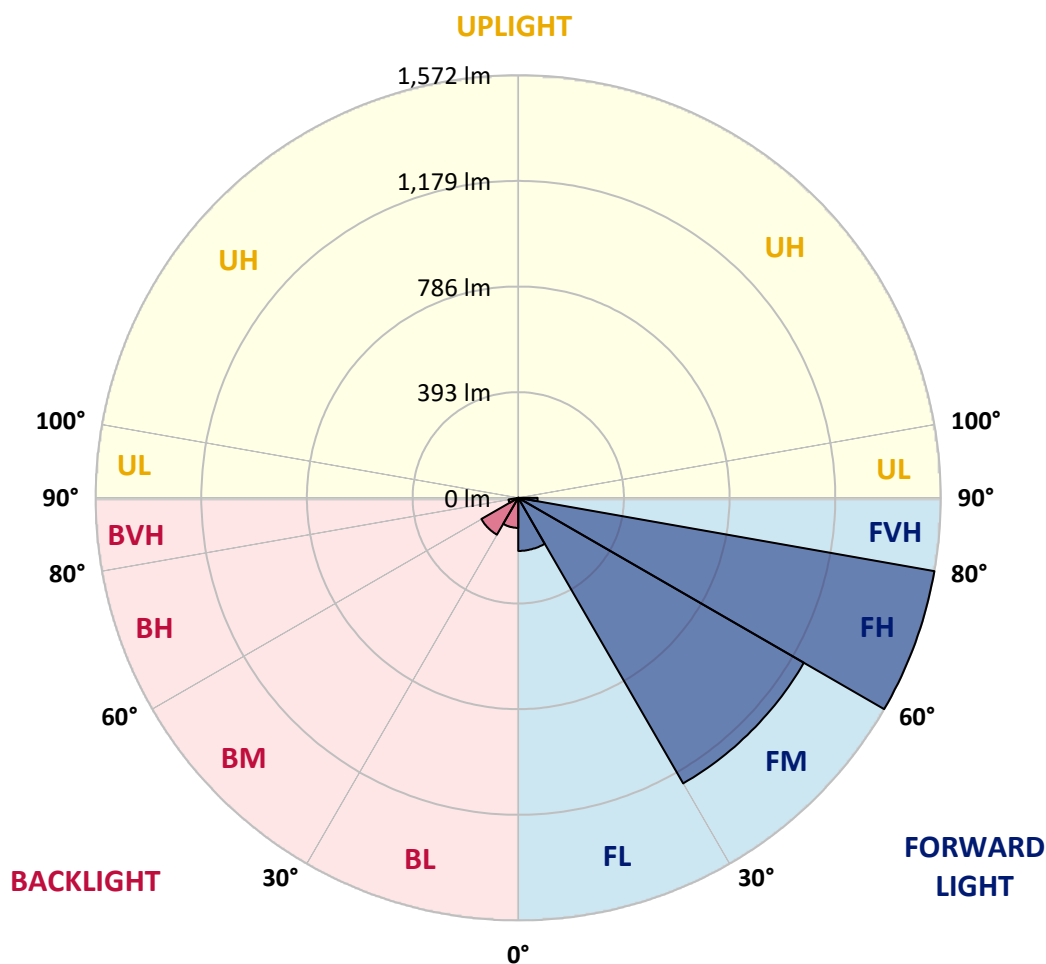
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	197.5	5.9			
FM	(30°-60°)	1226.7	36.3			
FH	(60°-80°)	1572.1	46.6			G1/1800
FVH	(80°-90°)	72.0	2.1			G1/100
BL	(0°-30°)	111.9	3.3	B1/500		
BM	(30°-60°)	158.4	4.7	B0/220		
BH	(60°-80°)	36.8	1.1	B0/110		G0/110
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8
2.5°	550.5	552.8	555.2	555.7	559.9	560.0	566.0	570.4	574.9	579.2	580.7
5°	494.0	497.8	502.2	506.7	515.4	518.9	533.4	548.3	562.5	576.1	582.7
7.5°	433.7	437.9	444.2	455.3	465.0	471.8	494.8	521.2	547.6	572.6	587.0
10°	378.6	382.6	389.2	400.9	416.0	425.2	456.1	492.8	531.6	569.4	593.4
12.5°	343.6	345.8	349.4	362.0	375.5	385.9	422.3	467.7	518.4	569.3	603.8
15°	337.2	337.8	334.9	340.5	351.1	361.1	398.0	447.4	508.3	571.9	617.4
17.5°	347.4	347.1	337.2	336.5	344.9	353.2	386.1	433.3	501.2	578.0	634.9
20°	362.9	361.8	344.6	341.5	350.4	358.2	385.2	428.0	498.6	588.3	656.2
22.5°	383.6	381.6	354.7	351.4	361.0	369.1	395.5	433.2	500.9	602.0	681.0
25°	409.2	406.2	372.0	368.4	378.1	386.2	413.8	447.9	507.8	618.7	712.3
27.5°	438.1	433.8	399.8	390.4	401.4	409.9	438.3	470.3	518.7	636.4	750.8
30°	465.4	459.8	429.0	413.5	427.0	436.5	464.7	497.1	536.2	663.6	803.5
32.5°	492.8	486.5	455.1	436.6	448.9	459.1	492.0	533.9	569.1	705.2	873.6
35°	555.9	549.3	510.8	480.2	480.1	485.9	530.1	584.3	612.6	763.2	957.2
37.5°	662.1	658.3	621.7	563.7	548.1	541.7	582.2	644.5	675.0	843.0	1051.5
40°	778.4	775.1	734.0	681.5	657.8	642.0	656.8	728.2	763.2	940.5	1147.8
42.5°	909.8	894.1	820.7	805.0	783.9	771.8	758.4	831.5	871.6	1046.6	1243.3
45°	1029.0	1002.6	907.5	883.7	878.9	881.8	889.3	970.2	993.5	1172.6	1338.5
47.5°	1100.1	1079.3	1006.2	983.4	982.1	1001.8	1057.9	1127.0	1114.9	1282.5	1422.2
50°	1167.6	1148.8	1088.2	1093.8	1099.9	1126.7	1249.4	1288.2	1225.8	1382.1	1499.0
52.5°	1222.3	1193.6	1161.9	1193.4	1223.5	1266.6	1447.0	1433.0	1304.4	1461.4	1564.8
55°	1253.9	1240.8	1256.2	1287.9	1344.4	1414.5	1633.5	1553.4	1361.9	1533.7	1608.6
57.5°	1369.5	1343.9	1374.5	1401.9	1475.6	1573.5	1793.3	1643.1	1403.4	1578.5	1618.6
60°	1509.4	1488.8	1506.8	1552.4	1651.8	1767.0	1942.6	1716.3	1425.0	1607.2	1592.5
62.5°	1732.1	1704.9	1693.6	1744.7	1876.5	2002.2	2055.9	1767.0	1420.2	1594.5	1503.0
65°	2030.5	2002.2	1952.0	1998.3	2166.0	2254.7	2182.6	1777.7	1387.2	1491.6	1276.7
67.5°	2336.1	2315.6	2272.7	2350.6	2502.0	2530.6	2316.6	1751.6	1280.8	1209.4	902.0
70°	2538.0	2529.2	2557.2	2729.6	2864.6	2856.3	2439.5	1611.4	998.3	743.7	446.2
72.5°	2392.4	2434.4	2640.6	2953.3	3118.2	3050.8	2376.4	1237.4	570.6	286.1	129.0
73°	2271.8	2325.5	2603.1	2961.7	3138.2	3064.3	2323.4	1135.8	486.4	225.8	97.8
75°	1580.5	1646.4	2155.1	2758.4	3044.7	2919.6	1936.7	695.2	225.3	100.1	39.5
77.5°	767.4	816.1	1186.6	1993.0	2367.8	2281.1	1205.6	259.0	101.8	62.6	18.2
80°	286.5	318.5	515.1	1014.3	1368.4	1404.2	530.3	98.0	67.7	50.4	9.3
82.5°	75.0	83.6	190.0	452.3	701.3	734.0	167.2	49.4	49.6	41.5	5.6
85°	24.0	27.4	59.3	203.0	330.4	290.1	43.6	24.0	36.0	30.9	3.1
87.5°	3.0	3.8	18.8	47.7	72.9	40.5	6.8	7.1	15.4	17.2	1.8
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°	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8
2.5°	582.2	581.3	581.5	577.2	574.4	568.8	563.0	560.4	557.6	556.4	557.6
5°	585.1	583.7	579.4	566.1	552.1	533.9	516.9	504.0	487.8	483.4	488.0
7.5°	589.8	586.8	574.2	547.3	516.1	481.4	442.4	414.0	390.7	375.7	381.1
10°	596.5	590.9	565.6	519.9	464.1	402.6	347.3	304.1	273.6	261.0	260.5
12.5°	607.9	597.4	555.1	484.2	400.4	318.5	246.0	199.2	174.5	158.4	158.1
15°	620.5	605.0	541.7	441.4	326.4	228.1	158.4	122.9	106.9	101.8	101.1
17.5°	635.9	613.7	524.3	388.7	249.0	151.2	103.4	93.2	92.5	92.0	92.0
20°	655.2	624.1	502.0	328.4	176.6	100.9	87.9	88.5	88.9	88.2	88.4
22.5°	677.7	634.7	475.4	263.7	119.4	84.4	84.1	84.9	85.2	84.9	85.1
25°	703.8	646.9	443.1	195.8	86.2	80.1	80.9	82.1	82.9	82.9	82.9
27.5°	736.1	661.8	404.1	136.6	74.5	75.7	78.0	80.1	81.3	81.6	81.6
30°	778.3	680.3	357.3	93.7	67.7	69.7	74.0	78.1	80.3	80.6	80.8
32.5°	831.5	701.1	303.1	69.2	62.0	63.4	68.1	75.0	79.1	79.8	79.8
35°	892.4	725.2	244.8	60.3	57.8	58.3	62.0	69.9	77.1	79.0	79.1
37.5°	959.2	749.0	186.2	56.3	54.4	54.4	57.0	63.8	72.4	78.0	78.6
40°	1021.4	763.4	130.5	53.2	51.2	51.2	53.5	58.5	66.6	75.0	76.8
42.5°	1078.9	768.4	90.9	50.2	48.2	48.7	50.7	54.7	60.8	69.2	70.9
45°	1138.1	767.5	66.2	46.8	45.3	46.8	48.2	51.2	55.7	60.5	60.8
47.5°	1182.7	760.6	52.5	43.4	42.5	44.4	45.8	47.7	50.2	49.9	49.9
50°	1224.5	743.7	42.3	39.0	39.6	42.0	42.6	43.3	43.4	40.3	40.0
52.5°	1256.2	717.5	33.9	34.2	36.8	39.2	38.5	37.5	35.8	32.0	31.4
55°	1266.8	666.9	26.6	28.2	32.7	35.7	33.2	31.1	27.9	24.8	24.1
57.5°	1247.6	601.7	21.6	22.0	27.6	30.1	27.3	24.8	21.3	18.7	18.2
60°	1207.0	529.1	17.8	16.5	21.3	23.5	21.6	19.2	16.0	14.0	13.9
62.5°	1126.3	451.8	14.7	12.9	16.2	18.0	16.9	15.0	12.4	11.1	10.9
65°	956.8	361.5	11.9	10.4	12.6	14.0	13.1	11.7	9.7	8.8	8.6
67.5°	667.9	244.3	9.7	8.6	9.9	11.1	10.2	9.6	7.8	7.6	7.8
70°	322.1	117.8	8.1	6.9	7.8	8.6	8.3	7.8	7.4	8.6	9.9
72.5°	92.3	39.5	6.4	5.8	6.3	6.8	7.1	6.9	8.1	10.4	12.1
73°	71.0	31.9	6.1	5.5	5.9	6.6	6.9	6.8	8.3	10.6	12.1
75°	30.4	15.4	4.6	4.5	5.0	5.8	6.1	6.1	8.3	10.7	11.6
77.5°	13.7	8.3	3.0	3.5	4.3	4.6	5.1	5.1	6.6	8.3	8.3
80°	7.8	4.5	2.3	2.6	3.1	3.1	3.1	2.8	3.0	3.3	3.6
82.5°	5.0	3.0	1.8	2.1	2.0	1.7	1.3	1.3	1.2	1.3	1.7
85°	2.8	1.7	1.7	1.3	0.8	0.7	0.8	0.7	0.2	0.0	0.2
87.5°	1.7	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)