

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: P318645

Luminaire Tested: **GAN-SA1C-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6230 lumens
Efficiency: N/A
Efficacy: 105.6 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

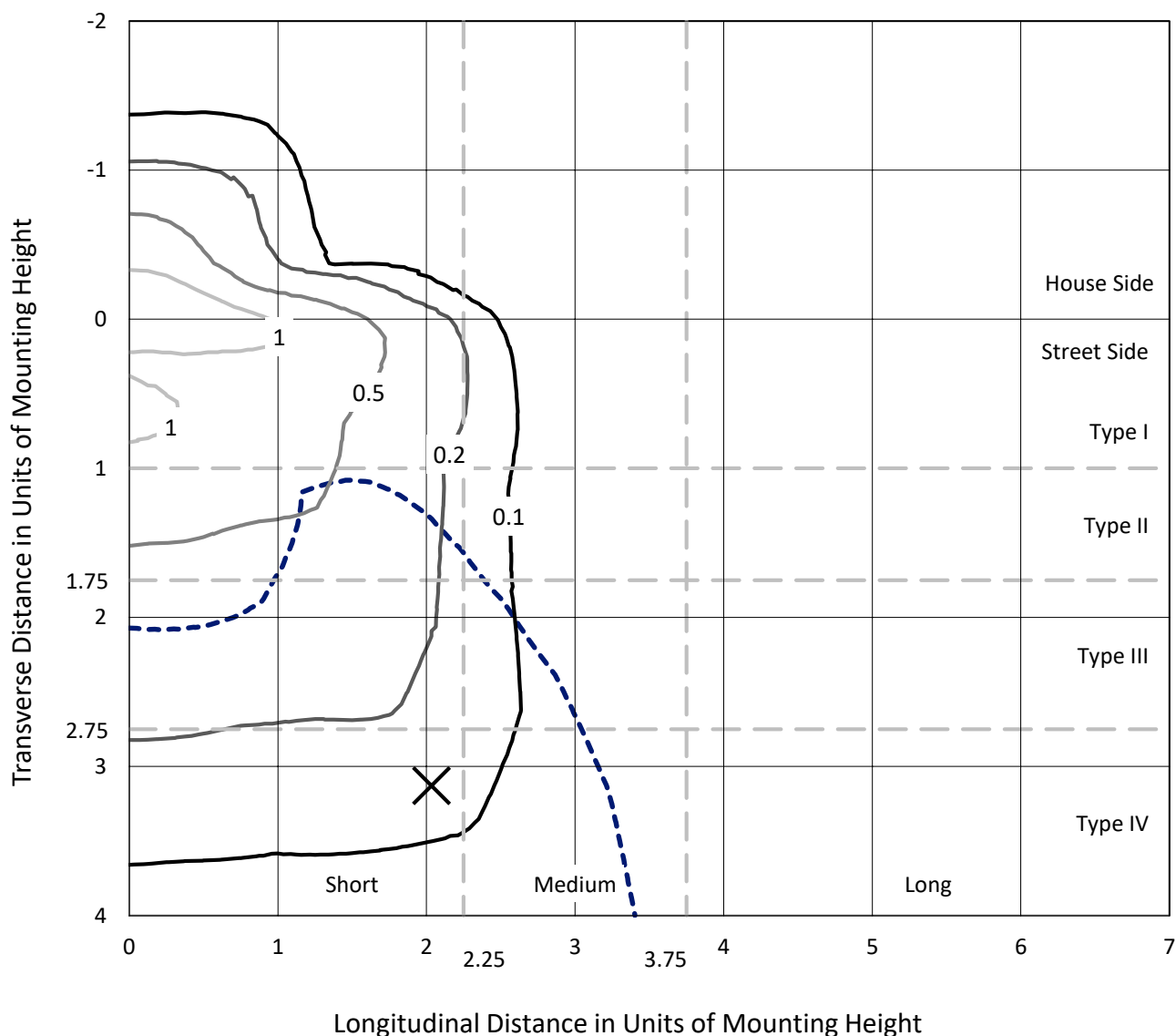
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

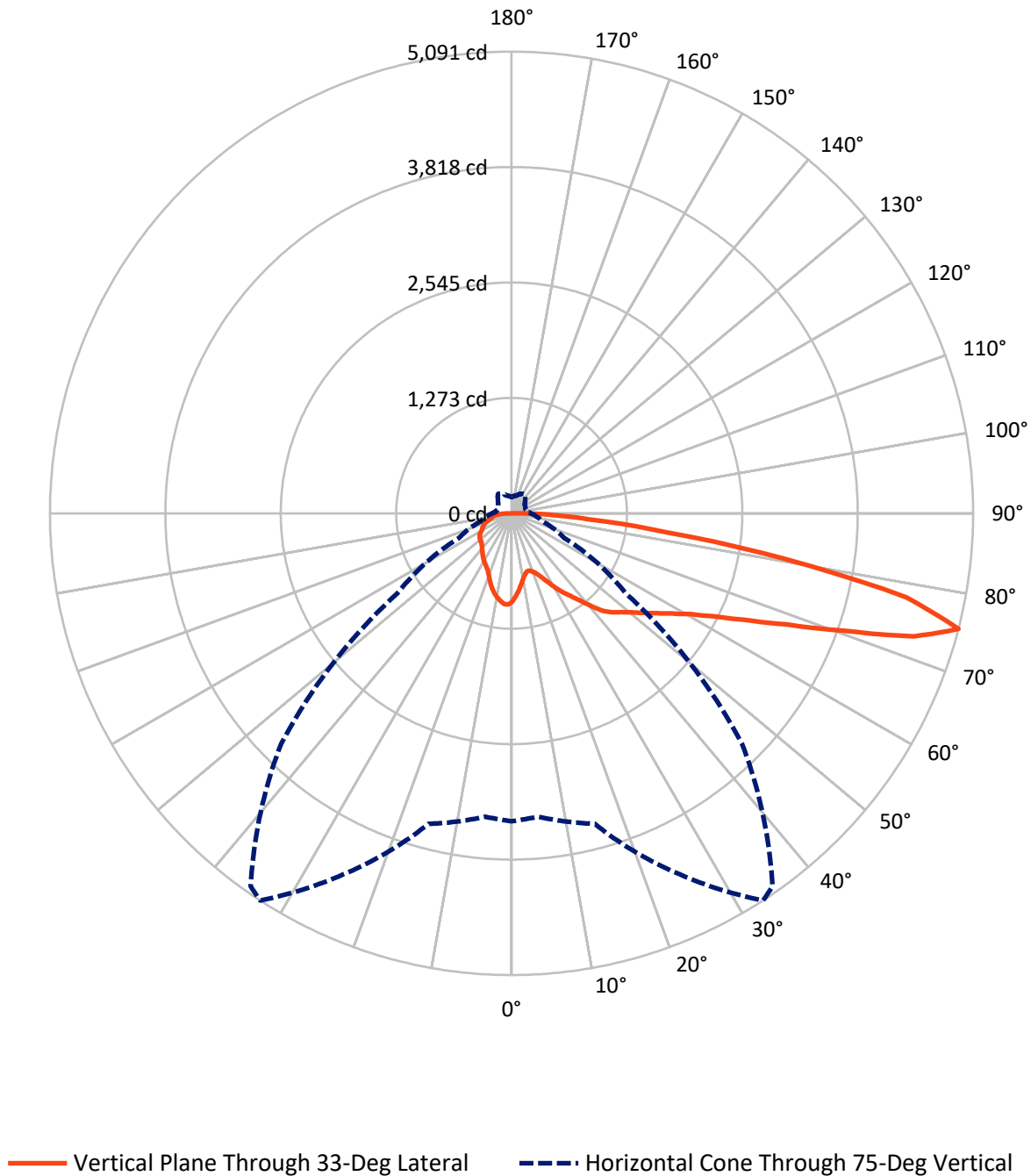
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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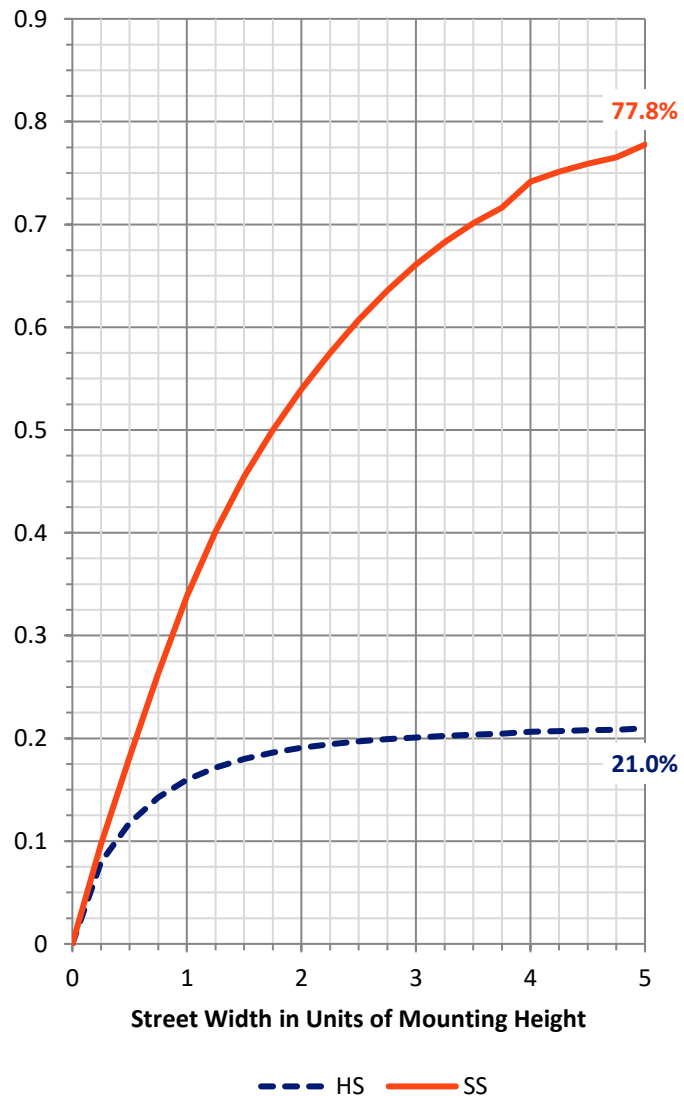
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1337.7	0.0	1337.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	4892.2	0.0	4892.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	6230.0	0.0	6230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	1.4
10°-20°	238.5	3.8
20°-30°	389.5	6.3
30°-40°	580.1	9.3
40°-50°	832.0	13.4
50°-60°	1142.3	18.3
60°-70°	1430.1	23.0
70°-80°	1293.7	20.8
80°-90°	235.7	3.8
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°	6230.0	100.0
0°-180°	6230.0	100.0

Coefficient of Utilization



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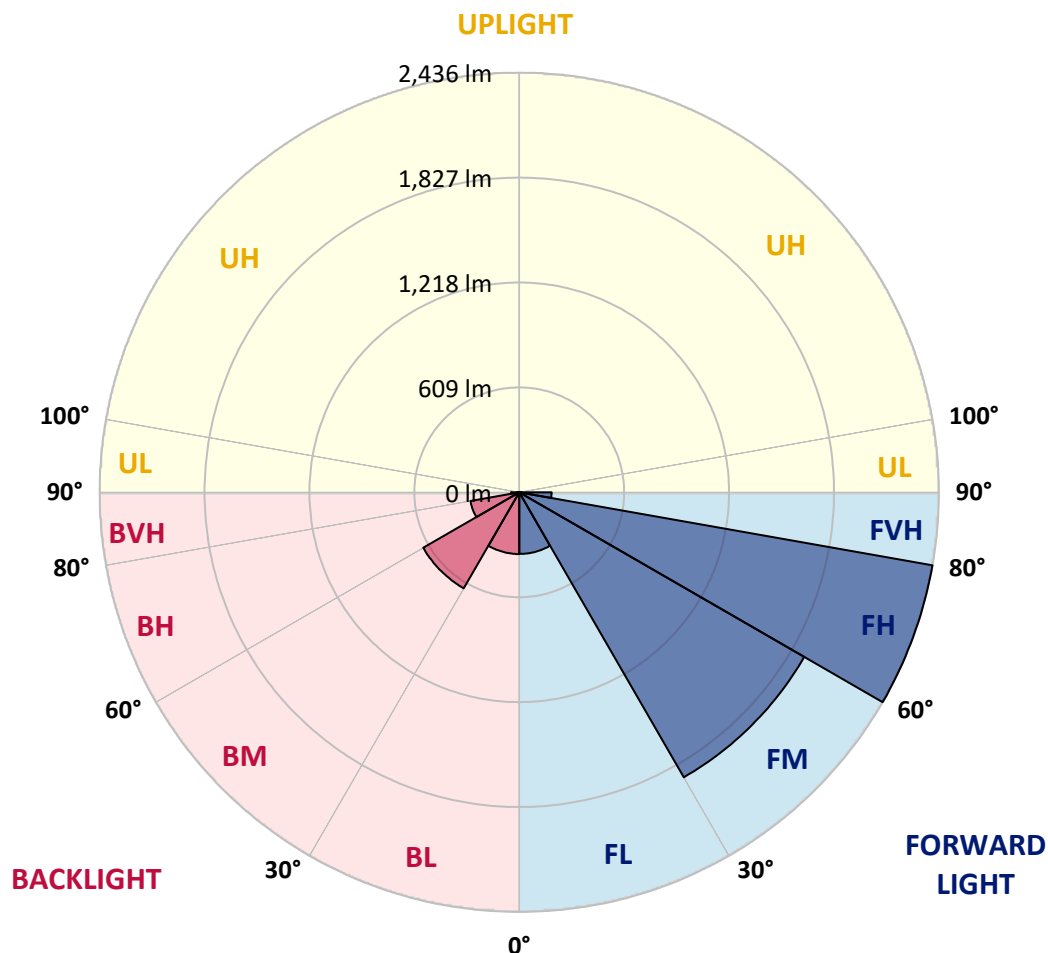
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.8	5.7			
FM	(30°-60°)	1910.6	30.7			
FH	(60°-80°)	2436.1	39.1			G2/5000
FVH	(80°-90°)	187.7	3.0			G2/225
BL	(0°-30°)	358.3	5.8	B1/500		
BM	(30°-60°)	643.8	10.3	B1/1000		
BH	(60°-80°)	287.6	4.6	B1/500		G1/500
BVH	(80°-90°)	48.0	0.8			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°	33°	35°	45°	55°	65°	75°	85°
0°	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8
2.5°	904.3	900.8	907.3	908.1	913.7	915.9	923.6	935.7	945.6	957.0	967.3
5°	822.3	819.9	829.0	835.4	847.7	852.8	871.1	896.7	919.6	945.4	968.8
7.5°	744.4	743.1	753.2	767.8	782.0	789.1	820.8	858.0	896.1	937.8	973.8
10°	678.7	678.3	688.0	702.4	723.3	731.3	772.1	821.2	874.6	932.0	982.2
12.5°	641.9	643.5	648.0	660.0	679.4	687.4	732.8	790.4	856.5	930.1	994.4
15°	651.0	653.3	645.6	645.2	658.9	665.2	707.8	768.5	843.6	933.3	1012.3
17.5°	689.5	689.9	669.5	656.6	665.0	668.2	700.0	756.0	836.1	940.6	1034.7
20°	743.7	742.7	706.5	685.0	689.5	690.4	711.0	756.2	835.4	953.3	1063.7
22.5°	815.6	807.6	759.0	729.7	728.7	727.4	739.2	772.1	844.9	974.0	1098.4
25°	909.4	901.9	835.0	795.0	786.3	783.1	784.8	806.1	863.6	996.2	1137.1
27.5°	1013.8	1000.7	936.1	879.5	861.7	857.1	846.8	854.1	884.0	1017.5	1183.2
30°	1101.2	1094.1	1037.7	970.6	949.5	943.0	915.9	907.9	913.5	1046.5	1241.3
32.5°	1150.0	1145.3	1111.1	1056.9	1037.3	1028.2	989.9	974.0	960.9	1092.4	1320.0
35°	1209.2	1206.2	1185.5	1146.2	1117.1	1107.6	1077.9	1061.4	1027.6	1155.4	1421.8
37.5°	1284.5	1281.3	1281.7	1249.9	1215.2	1206.4	1186.8	1169.4	1114.1	1238.3	1532.4
40°	1369.8	1363.5	1361.1	1359.6	1337.7	1332.7	1322.4	1298.7	1222.6	1337.3	1641.6
42.5°	1498.0	1475.8	1428.5	1446.4	1468.1	1465.5	1473.9	1439.9	1343.1	1454.3	1748.1
45°	1621.8	1585.4	1503.6	1507.5	1555.0	1569.5	1632.3	1608.2	1473.7	1582.6	1858.3
47.5°	1678.1	1650.6	1581.1	1581.3	1628.4	1658.3	1796.1	1778.9	1611.0	1728.3	1992.8
50°	1741.2	1713.6	1651.2	1674.7	1715.8	1747.6	1954.2	1945.4	1741.6	1887.7	2153.9
52.5°	1810.1	1763.4	1723.8	1765.7	1823.4	1860.4	2112.6	2088.5	1861.5	2048.3	2339.2
55°	1810.9	1798.2	1828.3	1859.1	1945.4	1990.8	2278.5	2214.8	1959.2	2206.0	2490.1
57.5°	1914.0	1893.3	1957.3	1971.5	2084.2	2135.4	2443.6	2324.8	2058.6	2327.0	2571.4
60°	2050.4	2032.8	2085.1	2122.5	2256.0	2324.4	2619.9	2437.8	2136.7	2418.2	2567.6
62.5°	2286.1	2266.1	2265.4	2317.9	2497.6	2577.2	2817.6	2548.6	2167.7	2436.3	2458.0
65°	2631.0	2599.2	2539.2	2564.1	2831.4	2910.8	3038.6	2628.9	2126.8	2339.4	2175.9
67.5°	2966.8	2965.7	2891.9	2943.1	3272.1	3335.8	3290.4	2636.9	1999.2	2002.2	1675.3
70°	3301.4	3305.7	3293.2	3471.4	3867.6	3933.9	3558.6	2529.9	1712.4	1445.9	1003.7
72.5°	3566.5	3565.4	3628.3	4087.7	4640.4	4625.5	3784.5	2205.8	1229.4	780.5	479.7
75°	3394.8	3357.3	3544.6	4392.9	5090.8	5018.3	3592.3	1538.7	638.1	355.3	258.2
77.5°	2214.2	2249.7	2524.5	3628.9	4452.9	4364.7	2635.6	717.9	300.6	233.1	187.2
80°	801.8	839.3	1182.1	2055.6	3067.9	3053.5	1297.9	295.0	203.4	176.0	136.4
82.5°	275.9	289.7	466.3	912.9	1732.2	1796.7	488.3	167.6	147.8	124.8	93.4
85°	108.2	124.0	213.3	439.2	873.7	880.2	197.8	100.3	102.9	81.8	51.2
87.5°	41.1	49.9	102.0	204.0	399.0	366.5	70.8	47.8	58.5	48.6	24.3
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°	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8
2.5°	975.3	979.8	989.3	995.7	1002.6	1004.6	1005.4	1007.1	1008.9	1008.2	1008.4
5°	981.3	990.1	1005.4	1011.9	1014.9	1011.4	1004.8	999.4	995.5	993.4	992.7
7.5°	991.2	1003.7	1020.1	1019.0	1012.1	996.8	979.6	966.7	955.9	952.0	949.9
10°	1004.3	1019.0	1030.4	1018.1	998.1	971.6	945.8	925.8	909.7	903.4	902.3
12.5°	1021.1	1036.0	1038.1	1012.1	978.9	942.8	907.7	881.2	857.1	849.4	847.7
15°	1042.9	1056.9	1043.5	1001.5	955.3	906.6	861.2	825.3	799.9	790.4	787.0
17.5°	1065.7	1079.0	1044.6	984.1	924.3	863.8	806.8	770.0	740.9	730.0	728.7
20°	1093.0	1099.0	1040.1	959.2	881.7	808.3	748.3	713.6	698.1	690.4	689.5
22.5°	1126.8	1120.3	1029.7	925.4	827.7	744.2	695.3	679.2	675.3	673.6	674.2
25°	1162.5	1142.7	1014.5	881.2	759.4	680.0	656.6	661.1	666.3	665.6	665.6
27.5°	1201.9	1165.5	991.0	822.7	683.9	627.5	630.3	646.9	654.6	654.4	654.2
30°	1252.5	1191.4	961.1	752.3	613.3	590.5	607.5	627.7	638.3	637.9	638.1
32.5°	1314.7	1219.8	920.4	673.8	562.3	563.2	582.8	602.8	615.0	614.0	614.2
35°	1387.4	1251.6	865.3	596.3	528.5	541.4	556.9	570.9	582.5	581.0	579.5
37.5°	1466.6	1282.8	792.2	527.0	501.0	521.2	534.1	536.5	541.9	538.0	535.2
40°	1541.9	1306.7	697.9	470.2	473.2	504.0	512.4	502.9	493.2	491.9	488.1
42.5°	1607.6	1314.7	602.6	424.8	444.0	485.9	491.1	471.3	453.9	445.7	442.2
45°	1676.8	1317.5	513.7	386.7	415.8	469.8	475.4	448.9	424.4	406.7	400.9
47.5°	1767.4	1337.7	444.6	358.5	394.2	459.0	467.0	431.0	399.2	374.0	368.6
50°	1886.0	1377.7	388.4	337.0	380.3	451.9	461.0	413.6	378.5	348.2	342.8
52.5°	2017.7	1414.5	343.0	319.6	366.7	439.4	453.2	401.1	359.2	324.3	318.5
55°	2109.8	1386.3	306.4	301.5	349.1	421.6	442.5	390.6	331.4	301.1	295.9
57.5°	2127.5	1289.9	278.7	282.8	327.8	399.2	425.9	367.1	316.3	291.0	285.6
60°	2079.3	1155.6	258.0	265.6	304.9	371.0	394.9	350.6	301.9	280.2	275.7
62.5°	1958.1	1018.1	242.7	250.1	283.6	342.4	375.5	333.1	287.3	267.9	263.4
65°	1713.4	854.8	228.1	236.3	263.8	317.6	358.1	317.0	272.9	258.0	253.7
67.5°	1293.4	640.2	214.3	221.7	246.2	296.1	339.2	301.1	258.9	249.4	244.3
70°	761.6	400.9	198.6	206.4	227.7	273.7	318.9	283.6	241.5	237.2	230.5
72.5°	354.4	241.2	180.8	188.3	204.4	243.8	292.9	260.8	220.8	211.3	202.3
75°	211.5	176.5	159.7	166.4	177.8	212.0	260.2	237.6	201.2	188.7	179.3
77.5°	158.2	134.9	136.4	143.5	152.8	185.5	230.5	219.3	186.1	176.5	170.0
80°	113.8	102.4	111.3	119.0	128.7	168.7	220.8	202.7	168.3	155.4	149.3
82.5°	76.0	73.6	83.7	91.7	101.1	147.6	207.5	177.5	143.8	127.4	114.1
85°	42.0	44.3	56.4	59.8	68.0	103.9	170.0	142.7	108.2	87.2	83.3
87.5°	17.4	20.4	30.3	29.3	36.2	62.0	111.9	86.1	68.9	51.4	40.0
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)