

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: P319585

Luminaire Tested: **GAN-SA1A-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4081 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

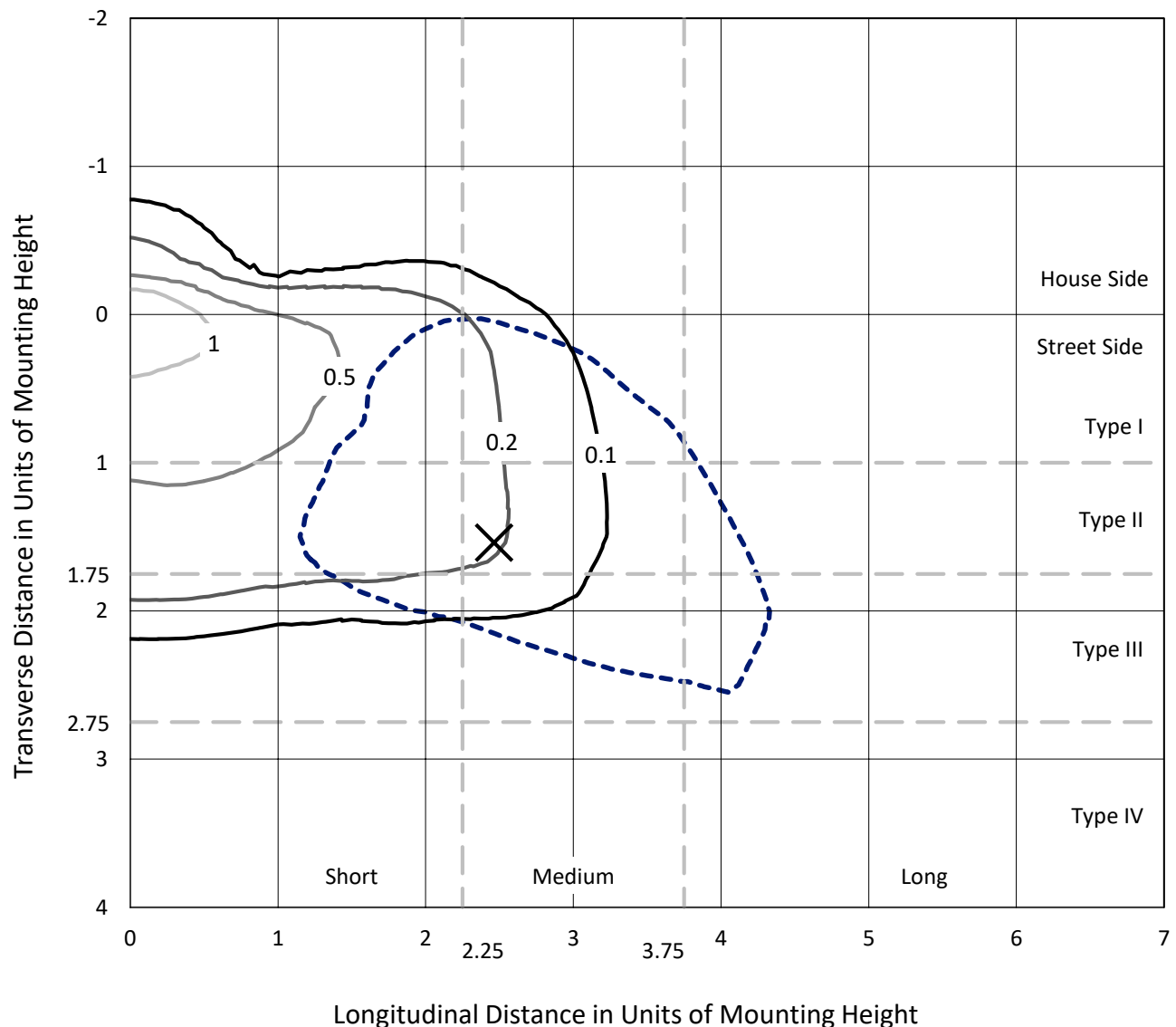
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

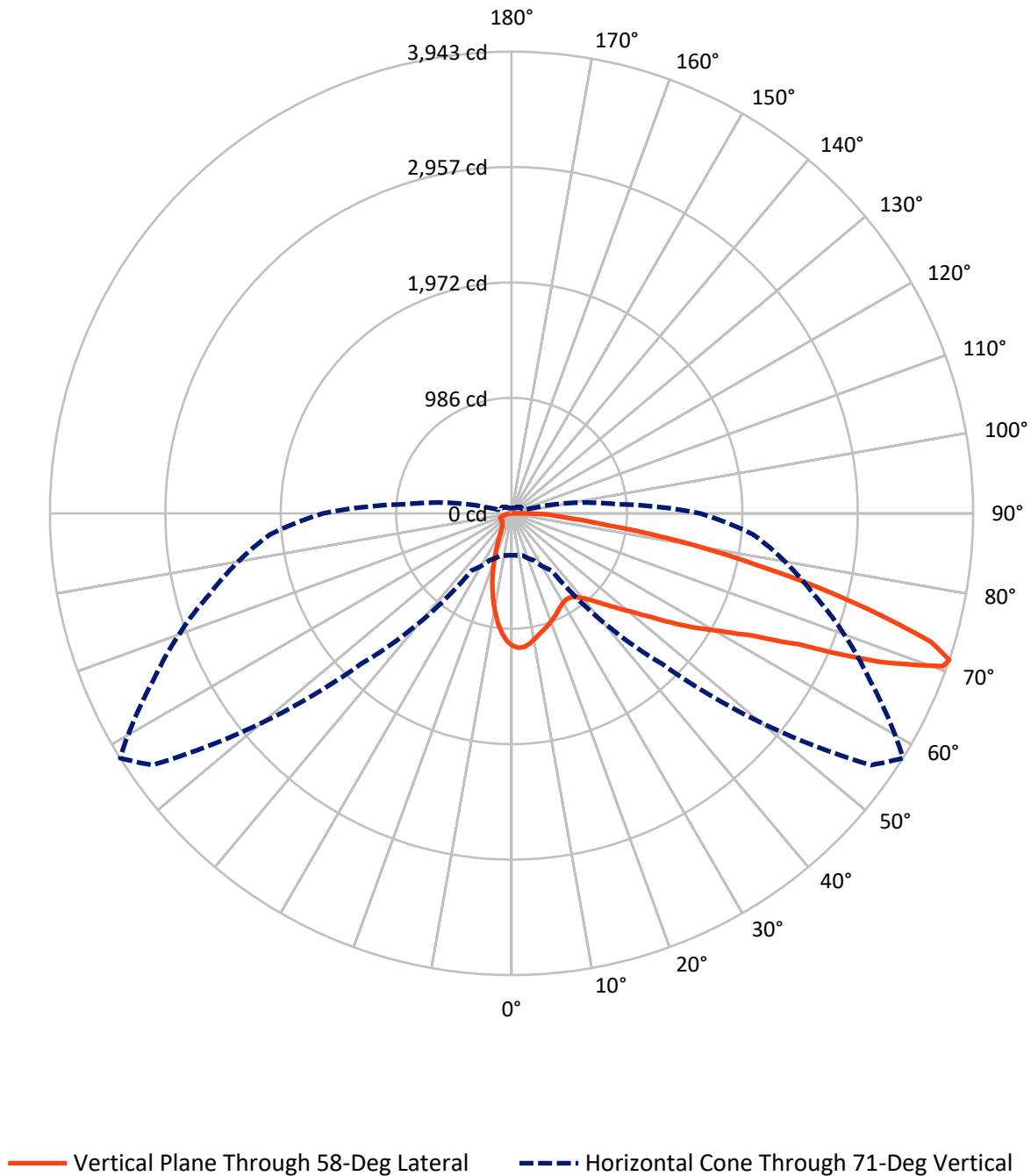
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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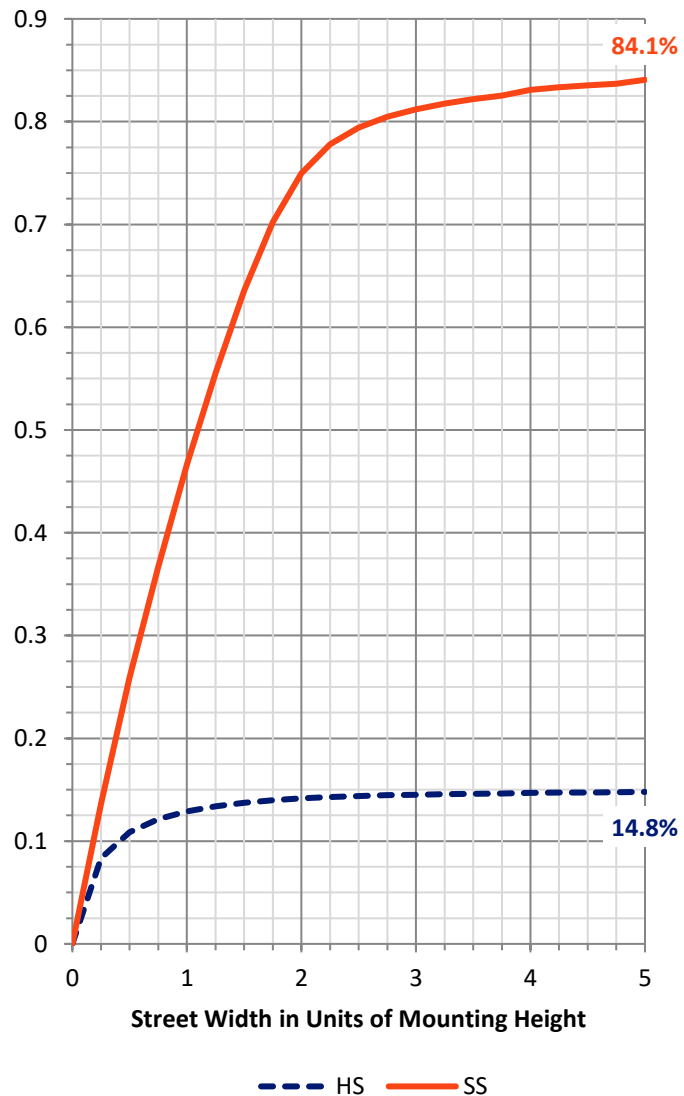
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	610.1	0.0	610.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	3470.9	0.0	3470.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	4081.0	0.0	4081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	2.4
10°-20°	216.9	5.3
20°-30°	275.7	6.8
30°-40°	351.1	8.6
40°-50°	497.9	12.2
50°-60°	770.6	18.9
60°-70°	1049.0	25.7
70°-80°	699.8	17.1
80°-90°	122.3	3.0
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°	4081.0	100.0
0°-180°	4081.0	100.0

Coefficient of Utilization



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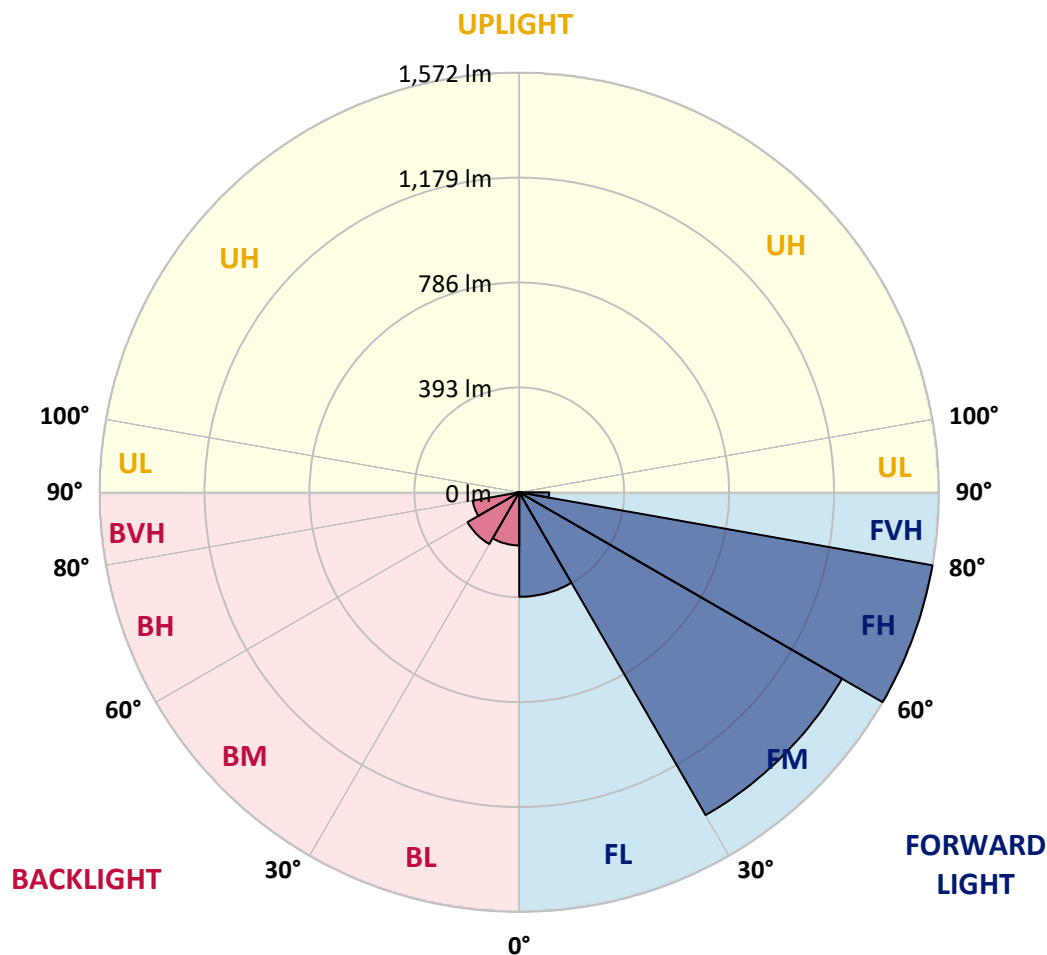
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	391.2	9.6			
FM	(30°-60°)	1395.9	34.2			
FH	(60°-80°)	1571.5	38.5			G1/1800
FVH	(80°-90°)	112.2	2.7			G2/225
BL	(0°-30°)	198.9	4.9	B1/500		
BM	(30°-60°)	223.8	5.5	B1/1000		
BH	(60°-80°)	177.3	4.3	B1/500		G1/500
BVH	(80°-90°)	10.2	0.2			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°	58°	65°	75°	85°
0°	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7
2.5°	1160.7	1159.1	1159.7	1158.6	1155.9	1153.2	1149.2	1149.9	1144.4	1136.1	1125.9
5°	1138.8	1138.2	1142.5	1144.9	1146.9	1145.4	1144.2	1145.6	1137.5	1126.2	1108.4
7.5°	1092.9	1086.6	1092.0	1100.1	1107.8	1113.7	1121.3	1122.3	1117.2	1105.3	1082.0
10°	1027.6	1021.7	1029.6	1042.3	1057.6	1071.6	1087.1	1089.9	1090.9	1080.1	1051.8
12.5°	960.0	955.4	963.4	981.2	1006.6	1028.1	1052.8	1057.1	1065.9	1058.6	1024.0
15°	899.4	897.7	907.4	924.9	954.2	987.0	1022.7	1030.5	1045.4	1043.0	1002.2
17.5°	847.1	846.7	854.1	872.4	904.8	946.3	992.7	1005.9	1028.1	1030.9	984.3
20°	808.2	807.3	812.4	825.9	859.3	906.4	960.3	978.5	1010.4	1020.4	965.8
22.5°	787.3	787.1	787.3	793.7	821.0	864.7	928.7	950.9	993.2	1012.0	945.3
25°	783.7	783.3	780.2	779.4	794.9	829.9	897.4	921.9	976.9	1006.2	925.9
27.5°	792.9	793.5	789.4	782.7	785.8	807.0	870.3	896.4	963.8	1005.0	912.4
30°	812.1	811.9	808.3	801.3	795.2	798.5	850.9	877.1	955.0	1010.0	903.1
32.5°	833.3	834.9	834.2	830.3	821.2	808.2	845.1	870.7	952.4	1022.0	899.1
35°	858.8	860.5	865.6	868.6	857.9	836.9	857.6	879.8	959.8	1044.4	905.5
37.5°	882.9	887.3	901.7	914.3	905.3	881.8	890.9	906.7	982.7	1079.8	922.7
40°	910.8	914.6	938.1	965.0	963.5	939.2	944.5	955.0	1023.1	1130.6	953.9
42.5°	938.2	945.9	979.9	1018.0	1028.9	1007.5	1015.8	1021.4	1080.0	1197.8	1008.2
45°	974.8	983.0	1030.2	1076.1	1101.7	1089.6	1103.0	1105.1	1151.5	1289.4	1087.1
47.5°	1030.1	1039.4	1094.5	1142.7	1181.7	1183.0	1205.1	1204.2	1240.7	1394.1	1186.4
50°	1116.2	1129.7	1174.8	1219.8	1267.3	1293.8	1323.2	1319.1	1347.8	1505.7	1300.9
52.5°	1229.1	1235.3	1268.7	1302.0	1361.0	1420.3	1462.5	1458.8	1469.2	1620.4	1430.8
55°	1346.1	1350.8	1364.6	1382.8	1462.1	1558.7	1648.0	1642.2	1615.9	1739.6	1559.2
57.5°	1451.3	1460.8	1470.3	1477.9	1563.9	1703.5	1837.8	1838.2	1775.1	1868.1	1691.8
60°	1467.6	1476.0	1539.0	1598.4	1738.0	1896.5	2040.9	2036.7	1939.9	2007.5	1839.6
62.5°	1297.3	1316.2	1421.4	1579.5	1905.7	2249.6	2300.1	2294.8	2136.9	2179.4	2011.8
65°	929.7	951.2	1078.1	1315.7	1824.4	2638.7	2767.8	2697.0	2405.6	2390.8	2213.4
67.5°	536.4	541.5	596.5	787.3	1389.1	2659.0	3481.3	3382.2	2822.8	2630.6	2312.0
70°	396.6	396.5	409.6	484.5	751.7	2170.2	3820.6	3909.4	3262.1	2709.5	2172.6
71°	358.7	359.1	373.7	441.0	595.3	1816.5	3748.5	3943.0	3377.8	2670.5	2071.6
72.5°	306.8	308.2	328.5	395.5	500.8	1252.7	3438.0	3741.7	3432.6	2574.4	1913.7
75°	232.7	236.0	264.1	333.4	457.7	635.3	2523.3	2987.8	3049.4	2271.7	1422.0
77.5°	166.0	169.7	201.6	280.3	435.1	478.8	1689.8	2179.4	2244.1	1455.8	641.4
80°	104.9	109.3	133.3	223.0	408.8	454.6	1061.9	1464.9	1223.7	465.8	163.2
82.5°	61.6	65.0	82.7	145.7	333.9	437.8	624.8	812.0	476.2	140.7	74.2
85°	35.7	37.2	51.6	92.8	242.5	413.2	459.0	453.9	206.7	68.8	35.1
87.5°	16.6	18.5	30.6	48.5	134.6	299.5	362.8	313.5	128.5	32.3	16.5
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°	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7
2.5°	1120.9	1118.5	1108.4	1099.4	1090.1	1077.8	1064.3	1062.6	1054.4	1055.9	1053.1
5°	1098.7	1092.6	1068.3	1046.3	1020.3	996.9	971.6	960.0	943.2	942.1	937.8
7.5°	1067.0	1055.7	1018.0	976.2	934.4	894.6	855.2	829.3	802.9	791.7	790.7
10°	1031.3	1012.0	956.6	894.7	834.5	776.3	720.0	678.4	640.8	623.1	622.4
12.5°	997.5	968.9	892.9	808.7	726.3	650.9	573.7	519.0	472.0	456.2	449.5
15°	968.8	928.6	830.9	723.3	623.2	518.6	430.7	373.2	329.7	314.6	311.7
17.5°	940.9	889.2	767.4	637.0	516.0	401.0	313.0	270.2	247.1	241.0	240.8
20°	913.2	848.7	701.0	548.7	412.4	299.9	240.7	221.5	213.7	212.9	211.8
22.5°	881.8	805.7	631.2	460.2	321.8	235.8	204.6	196.9	195.9	198.4	198.4
25°	852.4	763.1	560.4	373.4	250.3	196.7	182.7	181.1	183.8	188.4	188.8
27.5°	824.9	722.0	491.3	296.4	200.6	173.3	167.5	169.3	174.1	179.4	179.5
30°	802.3	683.2	424.2	233.6	169.5	155.8	154.8	158.5	163.8	167.9	168.9
32.5°	784.8	650.1	359.4	187.8	149.1	142.7	143.6	146.7	150.0	152.2	153.8
35°	776.7	621.6	299.5	158.4	136.2	132.6	133.8	135.5	136.9	138.6	139.9
37.5°	778.2	599.6	246.1	140.0	127.5	125.7	125.7	125.7	125.7	126.5	126.7
40°	791.4	587.0	202.6	128.4	121.7	119.7	118.1	116.7	115.6	116.1	115.9
42.5°	825.2	585.8	170.7	121.0	117.0	113.7	110.6	108.6	107.2	107.8	108.0
45°	882.6	600.0	149.3	115.7	112.6	107.6	103.6	101.5	100.5	102.4	102.6
47.5°	957.0	631.0	136.2	111.9	108.5	101.9	97.7	95.7	96.0	98.7	99.4
50°	1052.8	681.4	129.9	109.5	105.6	97.1	92.7	91.0	91.8	95.7	96.5
52.5°	1158.0	753.9	130.6	108.7	103.8	93.5	88.8	86.9	88.3	91.8	92.5
55°	1279.4	841.0	142.4	109.7	101.1	91.3	85.7	82.3	83.4	86.7	87.3
57.5°	1414.3	940.8	166.2	109.5	97.7	89.1	82.5	77.3	78.2	80.2	80.7
60°	1554.8	1061.3	203.0	110.3	96.1	86.6	78.0	71.6	71.4	73.1	73.4
62.5°	1723.4	1200.8	245.1	110.9	97.1	83.3	72.2	66.0	65.1	65.5	65.8
65°	1897.1	1301.7	229.3	108.6	100.2	80.6	67.1	60.4	58.9	58.6	58.7
67.5°	1902.5	1193.5	160.8	104.1	101.5	79.2	63.3	55.7	53.2	52.2	52.0
70°	1706.2	969.6	125.2	99.2	96.4	76.9	59.7	51.9	48.0	46.5	46.3
71°	1610.3	892.6	118.7	96.8	92.5	74.6	58.1	50.2	46.2	44.5	44.2
72.5°	1460.1	800.2	110.7	93.0	85.2	68.8	55.2	47.8	43.6	41.7	41.2
75°	1047.8	523.3	95.1	82.9	70.5	54.9	48.3	42.9	39.4	37.0	36.7
77.5°	403.7	208.3	71.9	68.9	54.0	42.9	39.8	37.1	34.5	32.1	32.0
80°	124.8	93.1	52.5	51.9	39.1	32.0	31.0	30.3	29.3	26.7	26.2
82.5°	66.7	53.5	36.1	33.5	25.6	21.3	22.5	22.7	22.9	20.2	19.9
85°	31.8	28.3	20.3	19.0	14.9	11.9	13.8	14.9	15.1	12.4	11.5
87.5°	15.2	14.8	9.5	7.2	5.5	4.0	4.8	6.0	6.5	4.7	4.1
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)