

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: P451174

Luminaire Tested: **GLAN-SA2A-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6059 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
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

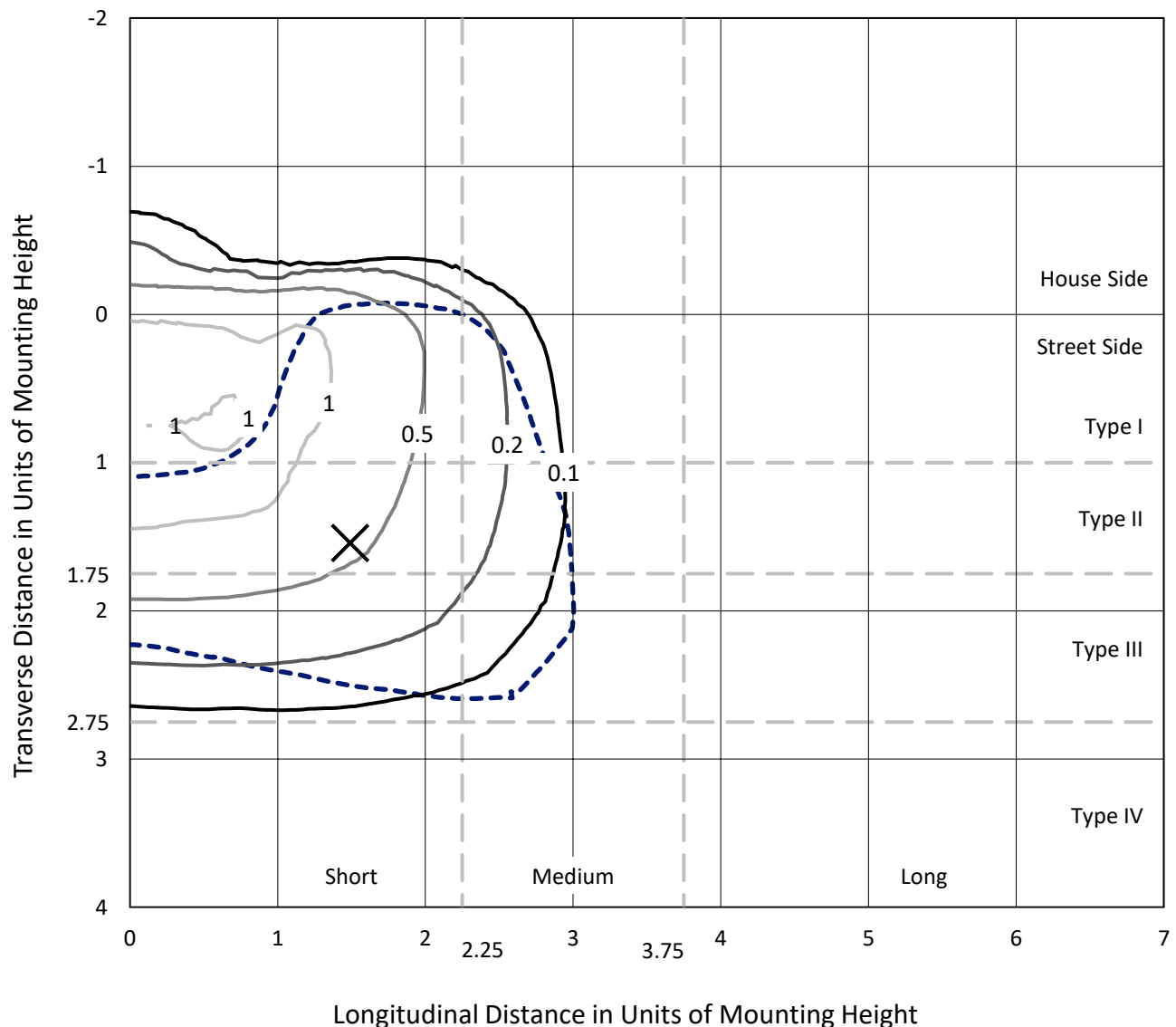


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Iso-Footcandle Lines of Horizontal Illumination

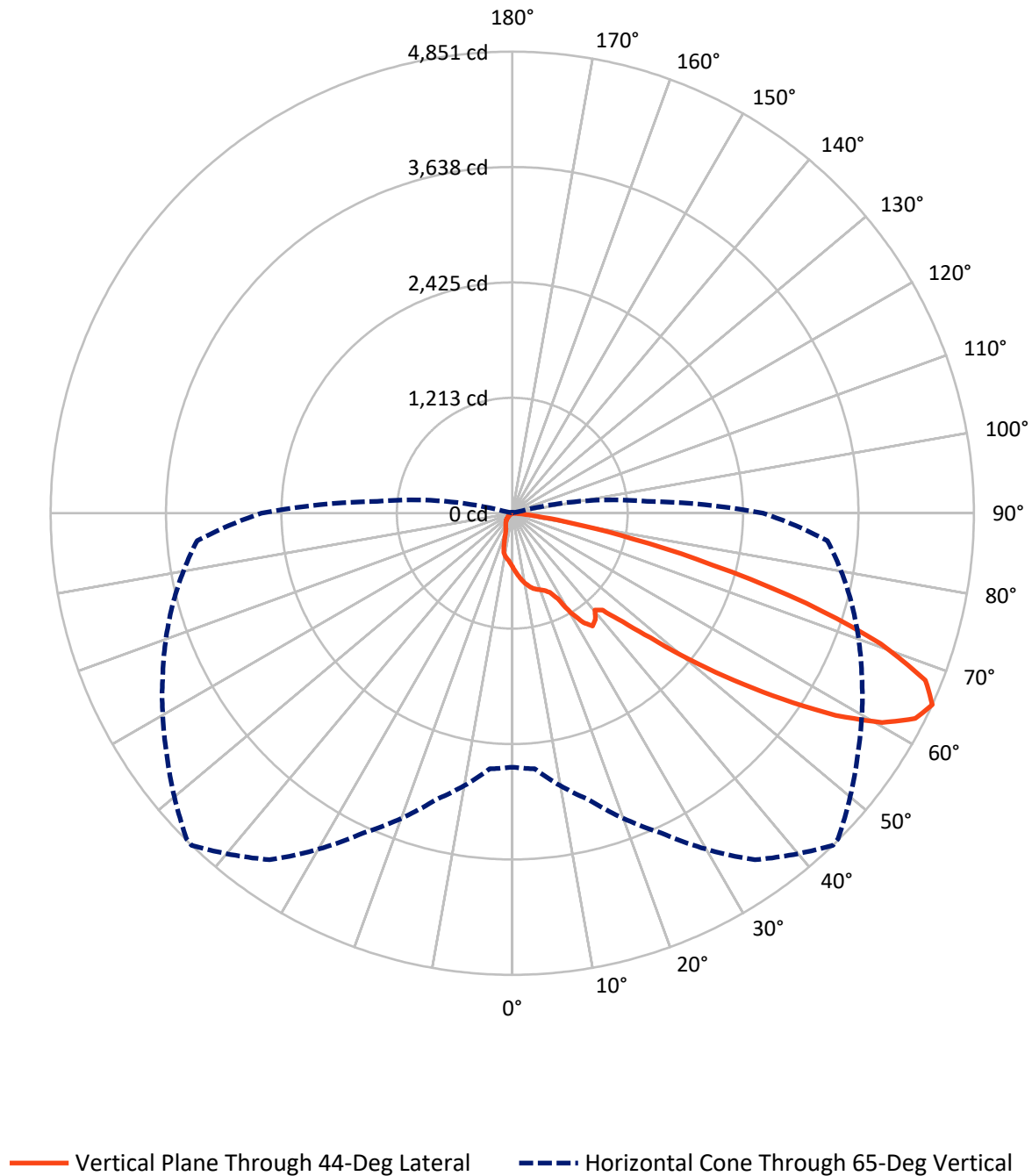
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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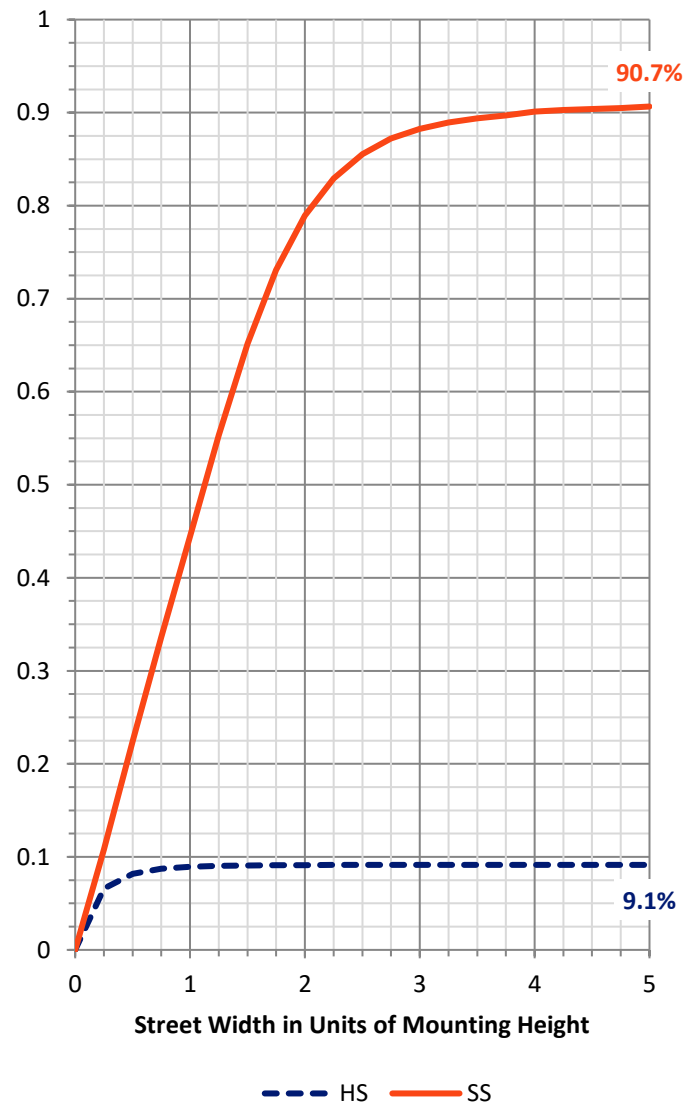
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	558.3	0.0	558.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	5500.8	0.0	5500.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	6059.0	0.0	6059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	0.9
10°-20°	168.8	2.8
20°-30°	286.2	4.7
30°-40°	475.9	7.9
40°-50°	830.9	13.7
50°-60°	1623.4	26.8
60°-70°	1883.5	31.1
70°-80°	685.9	11.3
80°-90°	48.3	0.8
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°	6059.0	100.0
0°-180°	6059.0	100.0

Coefficient of Utilization



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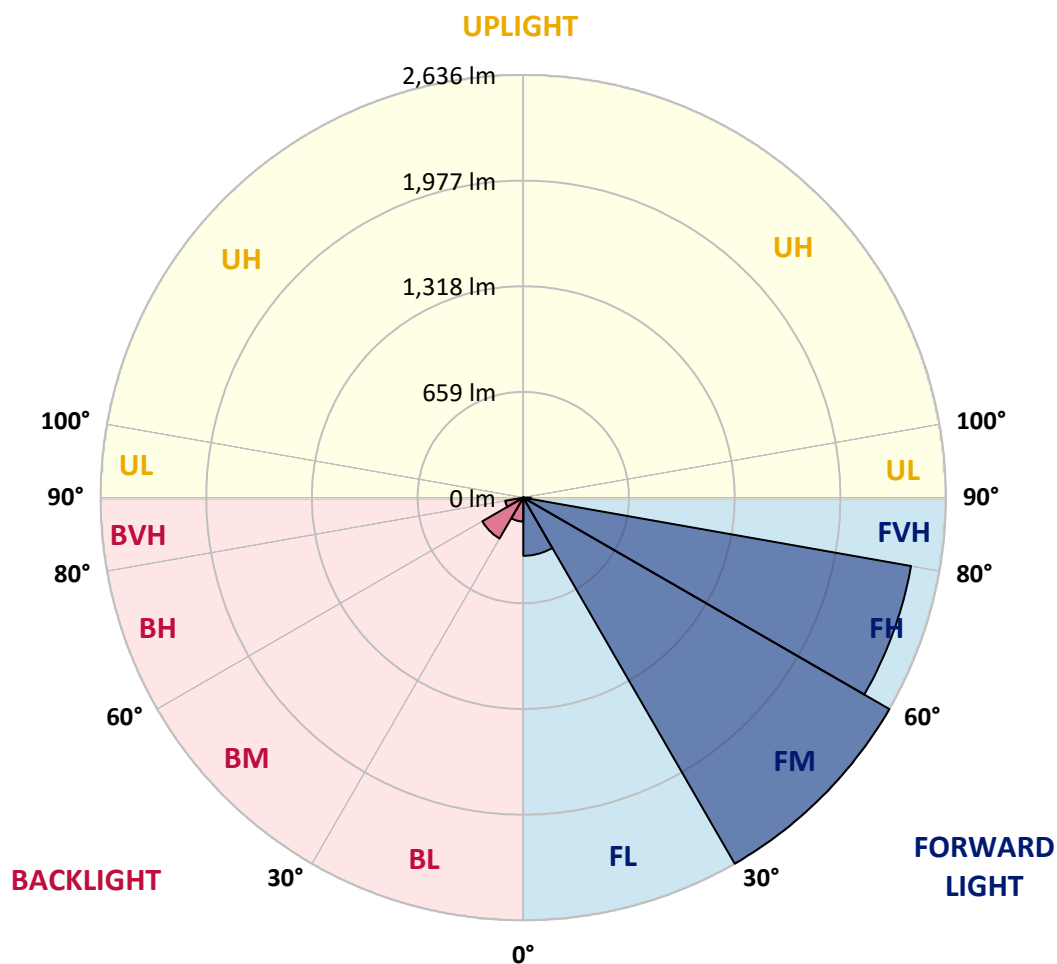
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.4	6.0			
FM	(30°-60°)	2635.7	43.5			
FH	(60°-80°)	2455.0	40.5			G2/5000
FVH	(80°-90°)	47.7	0.8			G1/100
BL	(0°-30°)	148.7	2.5	B1/500		
BM	(30°-60°)	294.5	4.9	B1/1000		
BH	(60°-80°)	114.3	1.9	B1/500		G1/500
BVH	(80°-90°)	0.7	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	563.9	563.9	563.9	563.9	563.9	563.9	563.9	563.9	563.9	563.9	563.9
2.5°	634.7	632.0	630.6	623.2	617.6	610.7	610.7	601.9	591.7	580.6	570.4
5°	705.6	701.0	694.9	688.5	675.5	657.0	657.0	638.5	617.2	598.2	577.3
7.5°	773.6	769.5	759.3	746.8	725.5	706.0	704.7	677.8	652.3	623.6	594.0
10°	833.4	830.1	821.3	797.3	775.0	749.6	749.1	719.0	689.4	654.2	617.6
12.5°	875.0	875.5	863.9	840.8	812.1	788.0	786.1	756.5	725.5	687.5	642.6
15°	904.7	904.7	892.6	866.7	840.8	819.5	817.6	791.7	759.8	718.5	669.9
17.5°	913.0	915.8	902.8	879.7	858.8	840.3	839.8	818.1	792.6	752.8	697.7
20°	909.8	912.5	902.4	884.3	869.9	859.3	857.9	849.1	825.5	788.0	727.3
22.5°	902.8	905.6	898.2	887.5	880.6	883.8	881.5	888.9	876.4	831.1	762.5
25°	904.2	907.0	901.4	895.4	901.4	921.3	927.4	959.3	948.2	885.7	800.5
27.5°	947.7	953.3	945.4	948.2	969.5	1015.8	1027.4	1082.5	1033.4	955.1	859.8
30°	1044.5	1040.8	1026.0	1039.4	1113.5	1211.6	1208.4	1199.6	1122.7	1035.2	930.1
32.5°	1132.5	1129.2	1128.3	1186.2	1320.4	1368.1	1365.8	1280.6	1202.8	1126.9	999.6
35°	1168.1	1155.6	1152.8	1293.1	1517.7	1454.7	1440.3	1313.9	1300.1	1226.9	1070.4
37.5°	1275.5	1266.7	1223.7	1310.7	1438.9	1418.1	1407.0	1371.4	1403.8	1315.3	1150.5
40°	1496.8	1472.3	1433.4	1348.2	1327.4	1336.2	1347.3	1445.0	1526.5	1436.2	1257.5
42.5°	1771.8	1766.3	1694.1	1535.2	1379.2	1391.3	1405.6	1598.7	1702.8	1618.1	1432.0
45°	2101.9	2109.8	2005.6	1818.1	1613.5	1623.7	1644.5	1825.5	1941.7	1901.0	1706.6
47.5°	2402.0	2395.9	2360.7	2165.8	1976.9	1954.2	1988.0	2116.8	2272.3	2278.8	2047.3
50°	2703.8	2735.8	2683.4	2607.1	2466.8	2419.1	2406.6	2469.5	2706.6	2675.6	2456.6
52.5°	3137.6	3154.3	3056.1	3036.7	3068.6	2914.0	2901.5	2916.8	3128.8	3022.3	2763.1
55°	3410.3	3400.6	3364.0	3515.9	3642.3	3449.2	3433.5	3371.9	3479.3	3267.3	3058.0
57.5°	3496.4	3510.3	3595.5	3870.1	4169.2	4005.3	3976.6	3801.5	3732.1	3495.5	3329.3
60°	3458.0	3483.5	3667.3	4075.6	4490.5	4465.9	4441.4	4147.4	3913.6	3686.3	3519.6
62.5°	3184.4	3220.0	3514.0	4039.1	4599.3	4752.5	4722.0	4363.1	4034.4	3778.9	3552.9
65°	2668.6	2695.0	3117.3	3707.1	4444.6	4850.7	4839.6	4430.7	4053.4	3694.1	3324.7
67.5°	1902.4	1992.2	2383.4	3124.2	3987.2	4683.1	4702.0	4349.7	3875.2	3327.9	2753.4
70°	1195.9	1257.0	1537.6	2236.7	3196.4	4108.5	4171.0	3978.9	3363.1	2594.1	1843.1
72.5°	570.4	615.8	815.8	1415.8	2256.1	3232.5	3282.1	3266.3	2600.6	1634.3	951.0
75°	254.2	271.3	389.4	722.7	1456.5	2172.8	2301.0	2322.3	1625.1	799.6	369.9
77.5°	129.6	130.1	182.4	350.0	727.3	1296.3	1321.8	1396.4	881.1	352.3	128.7
80°	69.0	73.6	96.8	165.3	377.3	638.5	635.2	698.2	390.8	172.7	43.1
82.5°	31.0	34.3	54.6	86.6	184.3	242.1	261.1	285.7	167.6	110.2	19.0
85°	9.3	11.1	26.9	43.5	66.7	69.9	78.2	100.9	94.9	78.2	9.7
87.5°	1.4	1.4	11.1	12.0	9.7	12.5	13.0	14.4	30.6	28.7	5.1
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°	563.9	563.9	563.9	563.9	563.9	563.9	563.9	563.9	563.9	563.9	563.9
2.5°	564.8	561.6	550.0	540.3	532.0	526.9	520.9	517.2	515.3	513.9	514.4
5°	567.2	559.3	539.4	523.6	511.6	498.6	489.8	484.7	482.4	478.7	478.7
7.5°	580.1	567.6	539.8	515.8	494.9	477.3	460.7	454.6	450.5	449.6	448.6
10°	598.6	582.9	544.9	511.6	482.0	457.9	434.3	413.4	397.2	387.5	386.1
12.5°	621.8	599.1	552.8	508.8	470.9	428.3	365.8	323.6	295.4	286.6	288.0
15°	643.1	618.5	560.7	506.5	450.5	355.1	284.3	236.1	221.8	220.4	220.8
17.5°	668.5	639.4	569.9	503.3	394.5	271.3	211.1	198.2	200.9	205.6	205.1
20°	694.9	661.6	581.0	483.8	314.8	204.2	186.6	188.0	192.1	196.3	197.2
22.5°	723.2	687.1	594.0	437.1	240.3	177.8	176.9	178.7	182.9	187.5	188.4
25°	762.1	719.0	603.7	375.9	182.0	164.4	166.2	169.5	173.2	178.2	179.2
27.5°	812.1	762.1	608.8	296.3	157.4	152.3	152.8	157.4	162.0	166.7	166.7
30°	876.9	813.5	598.6	224.1	145.4	140.7	138.9	141.7	147.7	152.3	152.8
32.5°	934.8	862.1	571.8	171.3	136.6	130.1	125.5	125.9	128.2	131.0	131.5
35°	992.6	909.3	525.9	144.0	127.3	119.9	113.0	109.3	107.4	106.0	107.4
37.5°	1066.7	968.1	464.8	131.0	119.4	110.2	100.5	92.6	86.1	81.9	82.9
40°	1162.1	1049.6	392.6	122.7	112.0	100.9	88.0	77.8	66.7	63.0	61.1
42.5°	1319.5	1173.2	316.7	115.7	104.6	91.2	75.0	61.1	50.9	47.2	48.2
45°	1568.1	1329.2	244.0	108.3	97.2	80.6	63.0	48.2	39.8	38.0	38.9
47.5°	1897.8	1531.1	188.0	100.0	88.0	69.0	49.5	38.0	32.9	32.4	31.9
50°	2208.0	1719.1	157.0	90.7	76.9	57.4	40.7	31.9	28.7	28.2	28.2
52.5°	2488.5	1853.8	127.8	80.1	64.8	47.2	34.3	28.2	25.5	24.1	24.1
55°	2738.1	1941.7	103.7	67.1	50.9	37.5	29.6	25.5	22.2	20.4	19.9
57.5°	2926.5	1952.4	77.8	53.7	38.0	29.2	25.5	22.2	18.5	16.2	15.3
60°	3007.1	1860.3	57.4	40.7	28.2	23.1	20.4	18.1	13.9	11.6	11.1
62.5°	2926.0	1681.1	42.6	31.0	21.8	17.1	14.4	13.4	9.7	6.9	6.5
65°	2635.8	1422.3	33.8	23.6	16.2	12.5	9.3	8.8	6.0	3.2	2.8
67.5°	2111.7	1113.9	26.9	17.6	11.6	8.3	6.0	5.6	3.2	0.9	0.9
70°	1373.2	712.1	21.8	13.0	7.4	5.6	3.7	2.8	1.9	0.5	0.0
72.5°	679.2	332.9	17.6	10.2	5.1	2.8	1.4	0.9	1.4	0.0	0.0
75°	263.4	118.5	13.0	6.9	2.8	1.4	0.9	0.0	0.5	0.0	0.0
77.5°	87.5	39.4	7.9	3.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0
80°	32.4	15.3	4.2	2.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	13.0	6.0	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.5	3.7	1.9	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	2.8	1.9	1.4	0.9	0.5	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)