

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: P322805

Luminaire Tested: **GAN-SA1C-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4489 lumens
Efficiency: N/A
Efficacy: 76.1 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

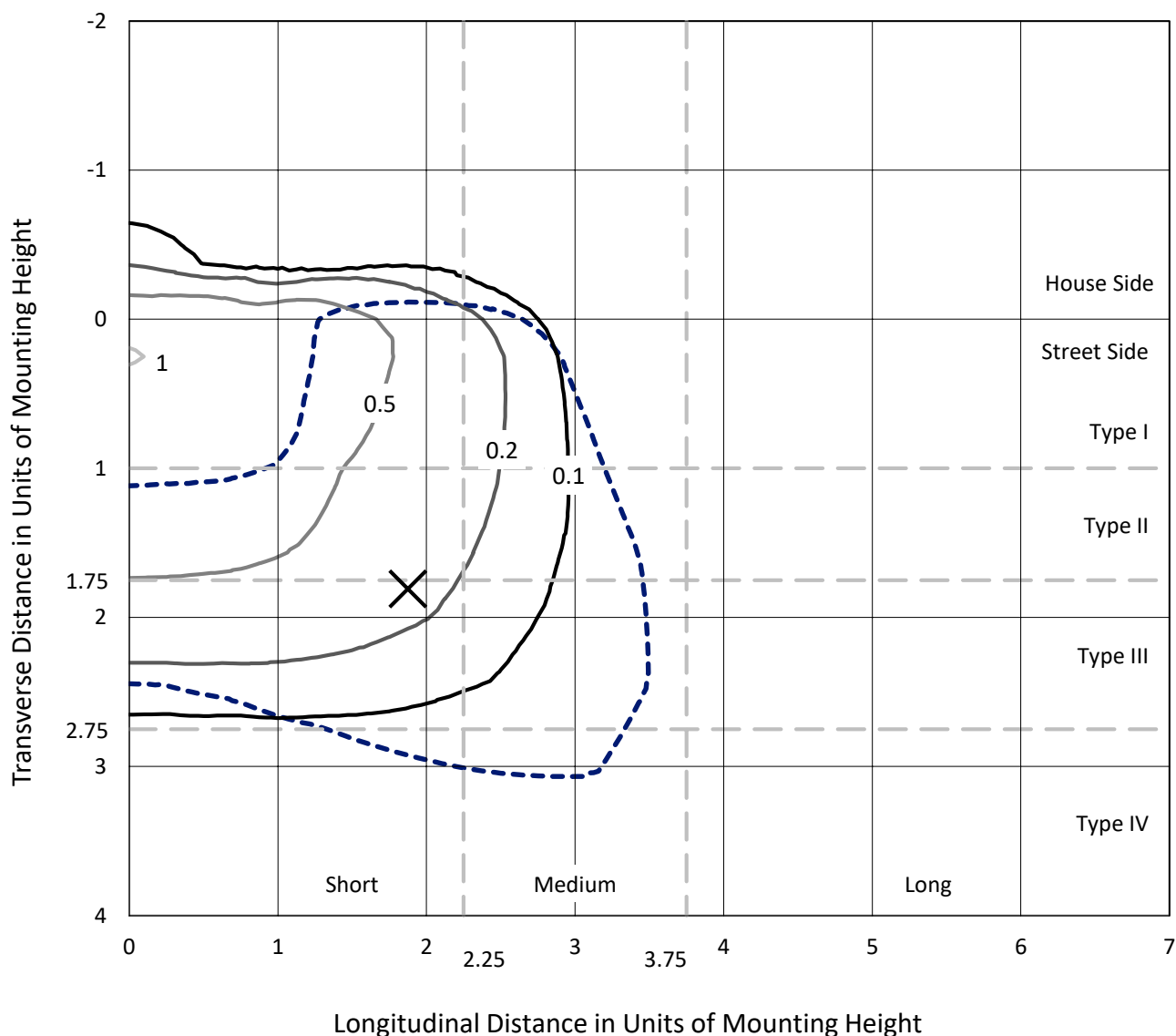
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

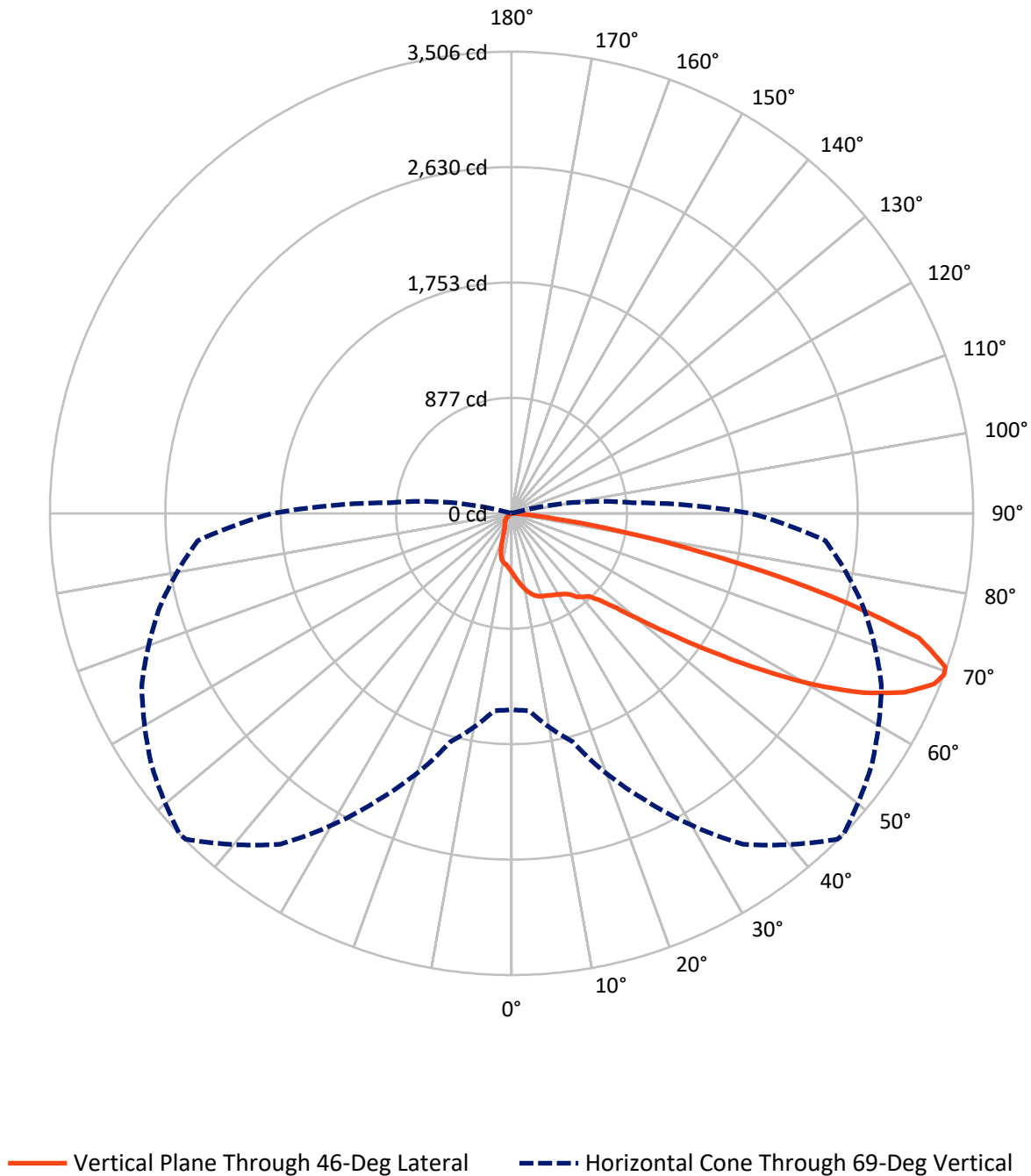
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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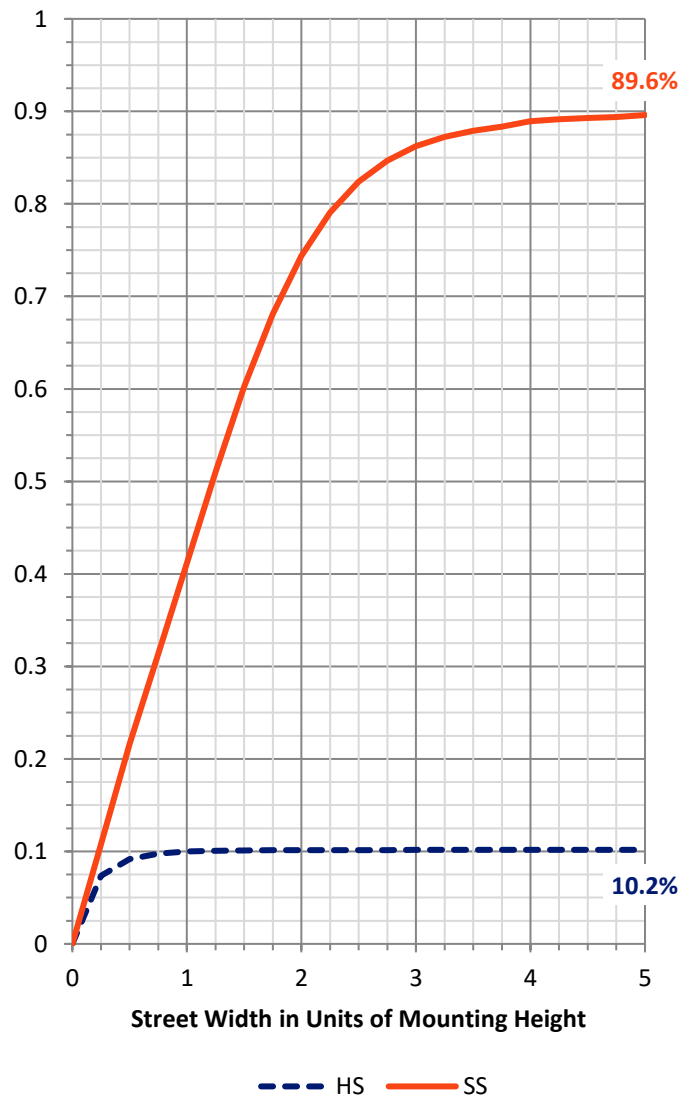
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	460.7	0.0	460.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4028.3	0.0	4028.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	4489.0	0.0	4489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	1.0
10°-20°	135.8	3.0
20°-30°	213.6	4.8
30°-40°	306.3	6.8
40°-50°	529.4	11.8
50°-60°	1045.9	23.3
60°-70°	1461.7	32.6
70°-80°	706.2	15.7
80°-90°	45.4	1.0
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°	4489.0	100.0
0°-180°	4489.0	100.0

Coefficient of Utilization



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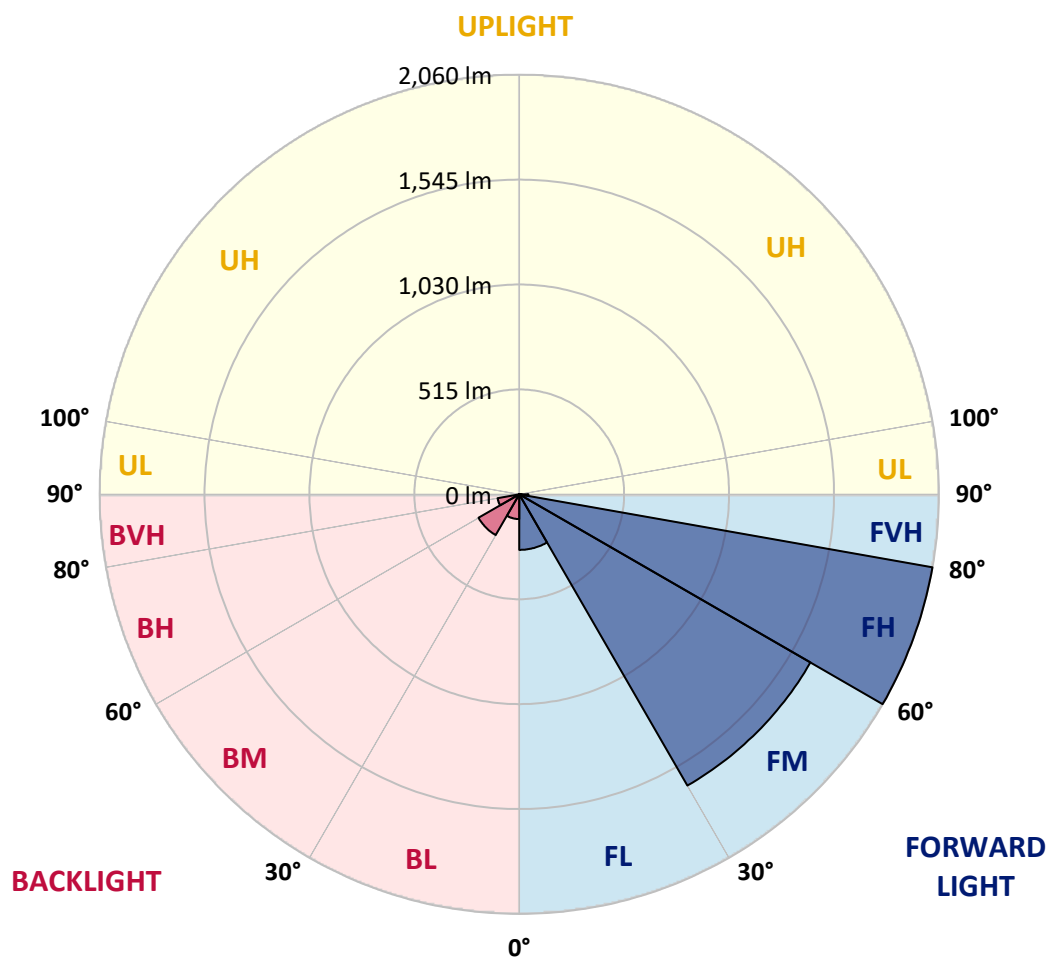
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	272.8	6.1			
FM	(30°-60°)	1650.7	36.8			
FH	(60°-80°)	2059.8	45.9			G2/5000
FVH	(80°-90°)	45.0	1.0			G1/100
BL	(0°-30°)	121.4	2.7	B1/500		
BM	(30°-60°)	230.9	5.1	B1/1000		
BH	(60°-80°)	108.0	2.4	B0/110		G0/110
BVH	(80°-90°)	0.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8
2.5°	499.7	499.0	496.1	494.8	487.7	483.5	481.8	476.5	468.9	461.4	452.9
5°	556.5	556.3	550.8	545.5	532.1	519.4	517.1	504.9	487.9	471.9	455.9
7.5°	614.6	611.8	606.4	596.3	576.7	556.5	554.6	537.3	513.1	490.0	467.0
10°	663.8	662.1	655.0	639.6	616.7	593.7	591.4	570.2	542.8	514.4	485.1
12.5°	702.1	700.9	691.4	672.3	647.8	624.1	620.9	602.0	572.7	540.9	506.4
15°	725.5	724.9	713.3	692.9	668.9	648.3	645.5	628.9	601.7	568.5	529.6
17.5°	731.0	731.2	719.2	698.6	678.8	664.0	661.9	649.3	626.6	593.5	552.7
20°	718.8	721.3	710.6	692.7	680.5	672.7	671.0	663.4	644.3	613.1	571.2
22.5°	701.5	702.8	695.4	683.4	678.4	679.8	679.0	674.8	658.6	629.9	589.5
25°	691.0	691.0	686.6	676.5	679.8	688.9	689.1	688.2	675.4	650.6	611.8
27.5°	690.6	689.3	684.2	676.7	685.9	699.8	700.7	706.3	698.3	675.6	639.6
30°	707.4	705.9	695.2	685.3	697.1	712.0	714.1	726.6	722.6	702.8	670.6
32.5°	746.8	741.5	717.7	701.5	710.3	728.2	731.0	750.8	757.1	736.2	700.5
35°	800.6	784.0	749.7	732.2	733.1	751.8	754.3	783.4	802.1	767.0	723.6
37.5°	874.9	866.7	811.0	764.2	768.0	796.4	803.8	835.4	830.1	783.8	749.9
40°	1037.8	1025.0	965.7	853.9	801.5	832.6	834.9	851.8	852.2	821.9	804.6
42.5°	1259.7	1254.4	1191.9	1016.6	867.4	856.8	861.0	889.5	921.2	902.3	901.5
45°	1505.3	1502.6	1436.3	1232.5	1000.6	936.2	941.4	979.5	1040.4	1044.6	1071.3
47.5°	1702.9	1701.7	1663.6	1473.5	1204.5	1070.7	1072.4	1112.8	1219.7	1272.5	1315.2
50°	1883.1	1889.2	1859.1	1734.3	1482.4	1281.4	1277.4	1304.3	1476.0	1562.6	1615.6
52.5°	2133.6	2142.2	2057.8	1977.6	1773.9	1542.8	1539.6	1567.8	1784.2	1849.0	1858.5
55°	2354.8	2340.0	2273.3	2250.2	2129.4	1865.6	1864.8	1889.6	2082.2	2109.8	2127.3
57.5°	2452.4	2446.7	2479.0	2532.0	2501.7	2247.2	2245.3	2226.4	2348.9	2351.8	2405.5
60°	2514.1	2521.0	2619.8	2783.3	2858.9	2657.9	2645.6	2530.1	2603.6	2597.0	2654.5
62.5°	2467.8	2481.5	2659.1	2931.7	3126.2	3016.3	2999.0	2808.3	2821.2	2798.7	2852.1
65°	2222.0	2243.2	2534.3	2903.7	3258.8	3296.4	3279.0	3054.0	2994.0	2956.9	2927.3
67.5°	1804.2	1816.8	2120.7	2660.2	3199.0	3463.5	3460.0	3269.3	3124.5	2930.2	2699.9
69°	1491.0	1503.4	1796.0	2403.8	3067.4	3499.3	3506.3	3338.3	3099.6	2767.7	2392.2
70°	1262.8	1276.1	1548.7	2184.1	2914.8	3482.7	3495.1	3331.8	3028.5	2579.6	2122.2
72.5°	662.4	673.7	953.4	1504.7	2376.2	3197.9	3235.6	3050.2	2567.1	1873.4	1254.8
75°	208.2	214.7	372.3	786.5	1627.0	2486.5	2495.2	2392.7	1822.9	1030.5	522.6
77.5°	79.3	77.5	124.0	289.8	822.5	1565.7	1618.5	1495.2	956.6	364.3	120.6
80°	42.7	42.9	64.4	120.0	351.9	804.6	849.3	724.7	339.9	113.7	27.8
82.5°	18.5	19.4	36.2	63.6	161.6	296.8	319.1	265.6	129.9	76.4	10.3
85°	4.0	4.4	17.5	34.5	65.9	83.3	87.3	86.1	82.7	59.4	4.0
87.5°	0.0	0.0	7.8	12.4	16.6	18.9	16.6	21.7	45.7	40.0	2.1
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°	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8
2.5°	450.2	446.4	439.9	432.7	427.7	422.4	418.2	416.3	414.2	412.7	414.6
5°	449.4	442.0	429.4	417.2	408.3	401.2	395.3	393.0	390.6	389.0	388.7
7.5°	456.7	446.4	427.0	409.2	395.5	385.8	377.8	374.4	371.7	370.4	369.4
10°	470.8	457.6	431.7	408.3	390.6	374.2	357.0	343.7	335.1	331.1	329.6
12.5°	489.1	472.5	440.5	412.7	387.1	355.5	318.9	287.3	266.9	260.1	256.1
15°	510.6	490.0	452.1	418.4	374.0	316.3	254.3	213.0	194.1	190.3	186.1
17.5°	531.2	508.5	466.0	419.5	345.4	252.8	186.3	158.3	150.9	153.4	154.1
20°	549.3	526.8	479.7	410.2	293.4	189.6	144.2	137.2	140.0	144.8	145.6
22.5°	567.6	544.5	492.3	385.8	226.9	144.0	129.9	131.5	134.3	139.1	140.0
25°	590.0	566.0	504.1	341.0	170.3	122.5	123.3	125.9	128.6	133.0	133.4
27.5°	615.6	593.1	511.9	282.7	126.3	112.6	115.3	119.1	121.9	126.1	126.9
30°	649.7	628.9	514.4	222.3	105.9	103.8	105.0	109.7	113.7	117.4	118.1
32.5°	681.7	664.3	506.0	167.7	98.1	95.6	95.6	98.3	102.9	106.5	107.3
35°	711.2	699.8	479.0	122.7	92.2	88.0	85.9	85.9	88.8	91.8	92.6
37.5°	750.1	749.7	435.5	97.9	86.5	81.7	77.2	73.9	72.8	73.5	73.9
40°	816.8	817.5	378.6	87.8	81.7	75.1	68.4	62.3	56.6	54.7	54.5
42.5°	921.0	911.6	319.1	82.9	77.5	68.4	58.3	50.1	41.3	38.5	38.3
45°	1086.5	1030.3	255.9	78.5	73.0	60.8	48.2	37.0	29.9	27.8	27.8
47.5°	1327.5	1186.2	198.3	73.7	67.1	52.2	36.4	26.7	21.9	20.8	21.0
50°	1576.7	1339.0	152.0	67.6	60.0	43.1	26.9	19.4	16.6	16.6	16.8
52.5°	1797.7	1451.0	118.5	61.0	51.1	33.9	20.4	15.2	13.9	13.7	13.9
55°	2004.5	1523.2	90.7	53.5	40.6	25.3	15.6	12.4	11.6	11.2	10.9
57.5°	2204.1	1559.0	68.0	43.1	29.5	18.3	12.4	10.5	9.7	9.1	8.8
60°	2336.9	1529.9	46.7	31.8	20.4	13.3	10.3	9.1	8.0	7.4	7.2
62.5°	2411.8	1450.6	30.1	22.9	14.5	9.9	8.2	7.6	6.1	5.5	5.5
65°	2381.5	1319.7	21.0	16.4	10.5	7.4	6.1	6.1	4.4	3.6	3.4
67.5°	2110.4	1114.9	16.0	12.2	7.6	5.5	4.6	5.3	2.7	1.7	1.7
69°	1815.8	924.0	13.7	10.1	6.3	4.4	4.0	4.8	1.9	1.3	1.1
70°	1578.1	797.1	12.4	8.8	5.3	3.8	3.6	4.6	1.9	1.1	0.8
72.5°	944.2	444.5	9.5	6.3	3.4	2.9	2.9	5.3	1.9	1.1	0.8
75°	381.6	156.6	6.9	4.4	2.5	2.5	3.6	6.7	1.7	0.8	0.6
77.5°	86.5	34.3	4.0	2.7	1.7	2.5	4.2	5.3	1.1	0.4	0.0
80°	21.0	8.4	2.5	1.7	1.1	1.9	3.2	2.9	0.2	0.0	0.0
82.5°	6.9	2.9	1.1	0.8	0.2	0.6	1.5	0.8	0.0	0.0	0.0
85°	2.9	1.7	0.4	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.9	0.6	0.0	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)