

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: P639181

Luminaire Tested: **USSL-M-PA6A-740-U-T3-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-PA6A-740-U-T3-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE III OPTICS WITH HOUSE SIDE
SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30159 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

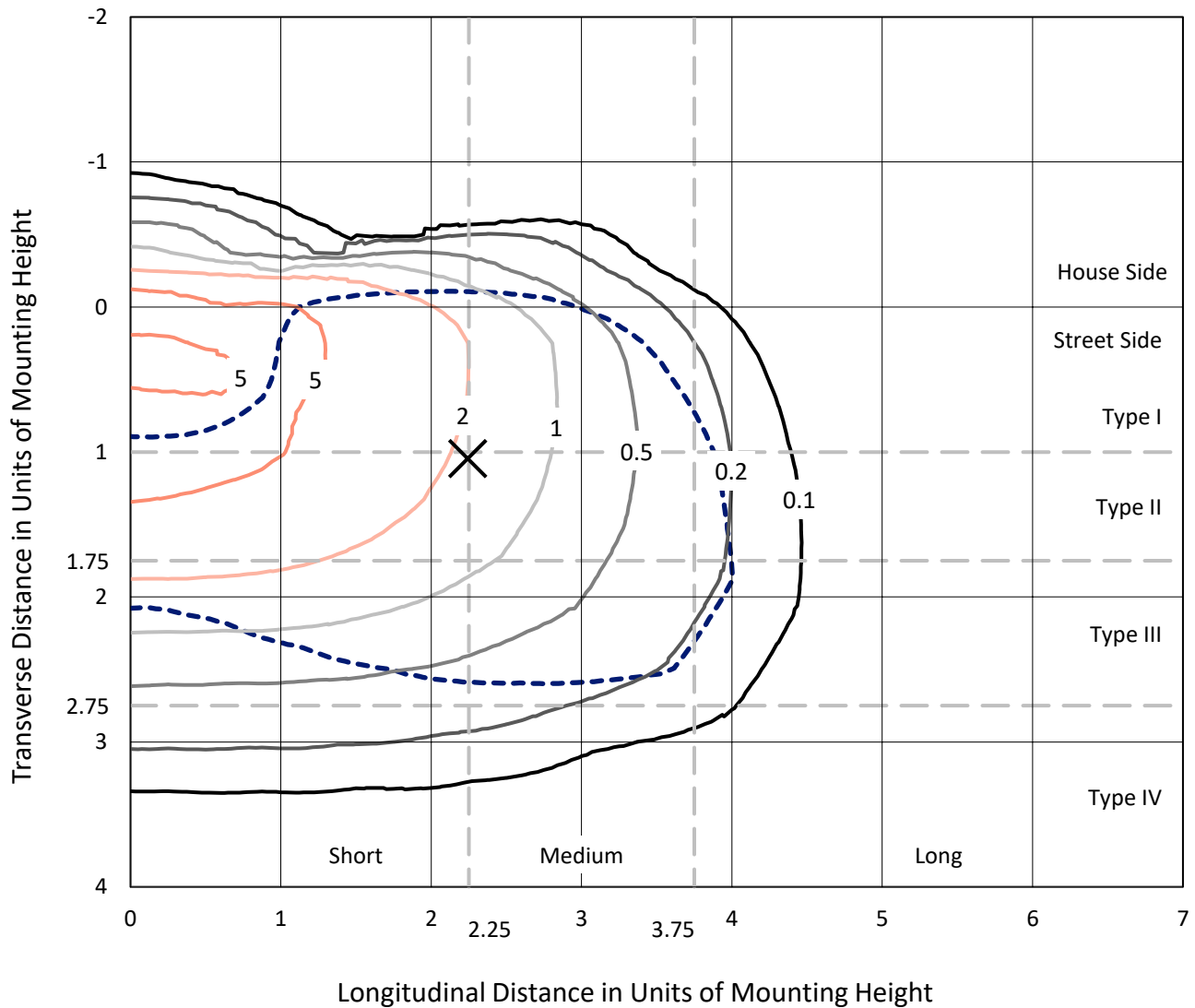
Input Watts (W): 273.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

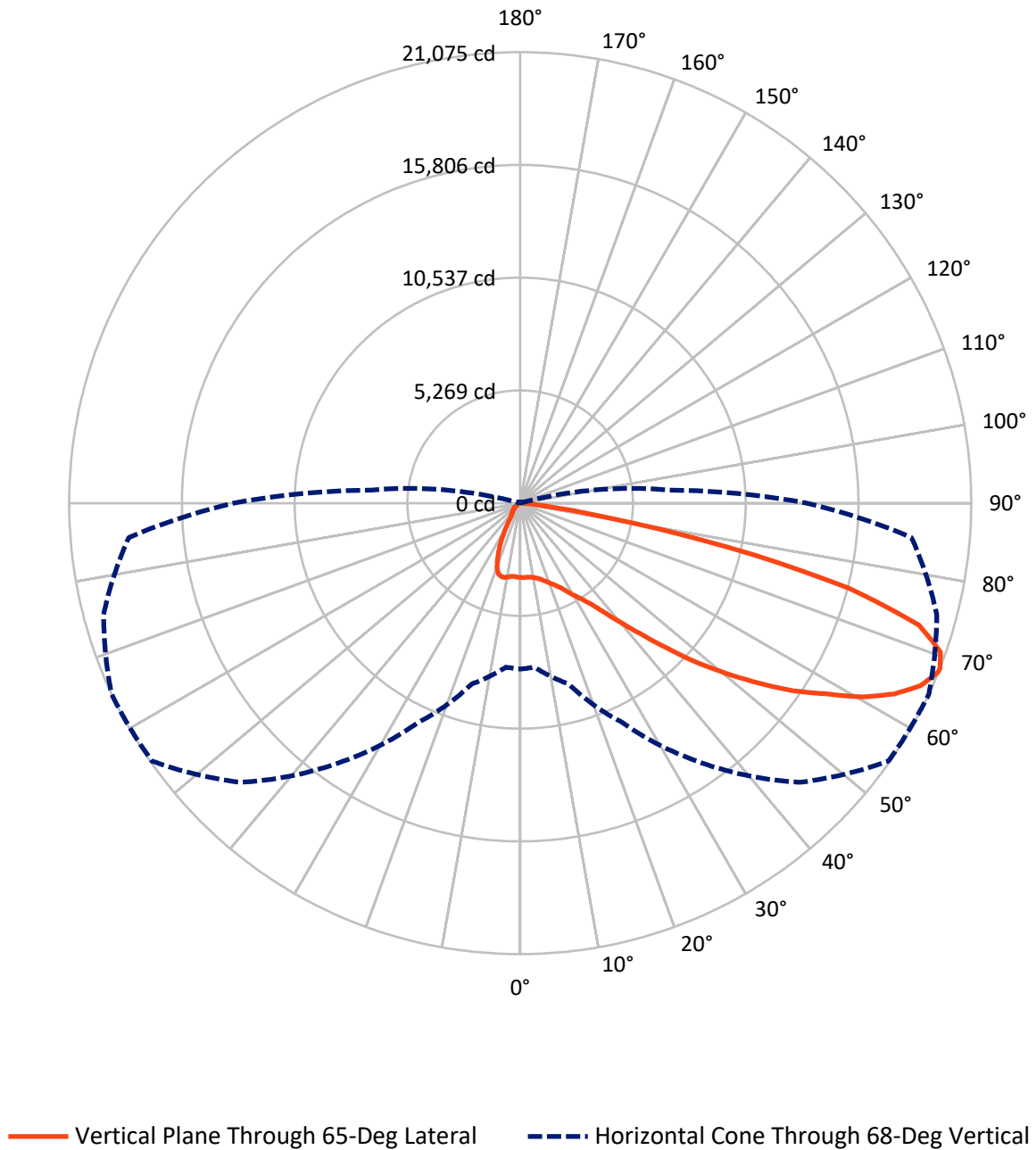
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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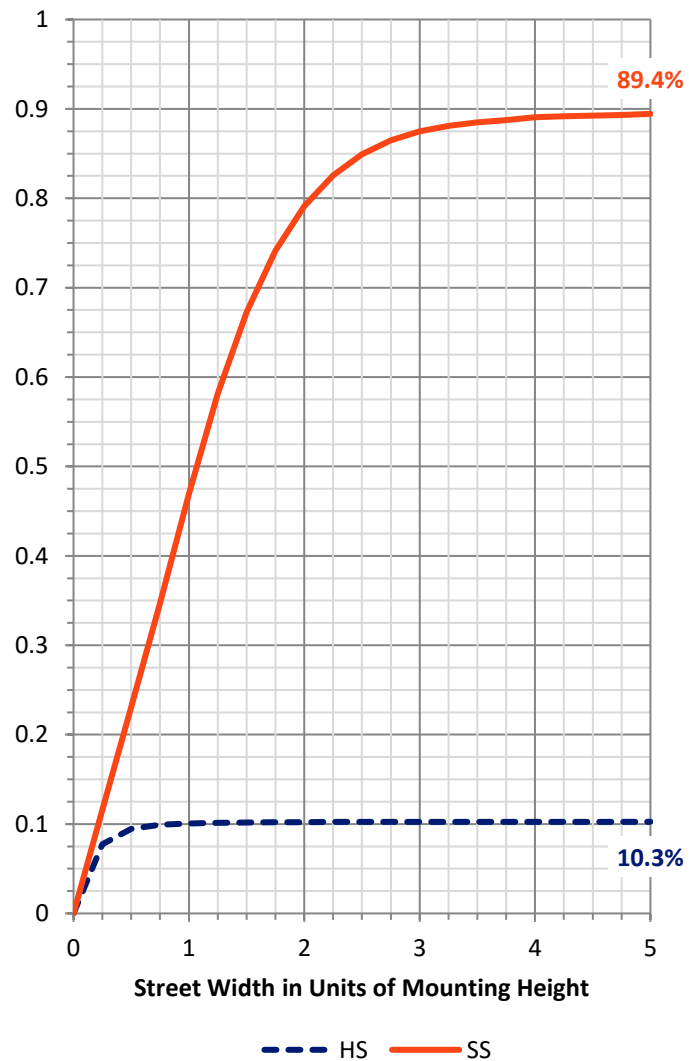
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3120.3	0.0	3120.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	27038.7	0.0	27038.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	30159.0	0.0	30159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.8	1.1
10°-20°	851.4	2.8
20°-30°	1347.6	4.5
30°-40°	2352.8	7.8
40°-50°	4564.9	15.1
50°-60°	7398.1	24.5
60°-70°	8599.3	28.5
70°-80°	4464.6	14.8
80°-90°	256.6	0.9
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°	30159.0	100.0
0°-180°	30159.0	100.0

Coefficient of Utilization



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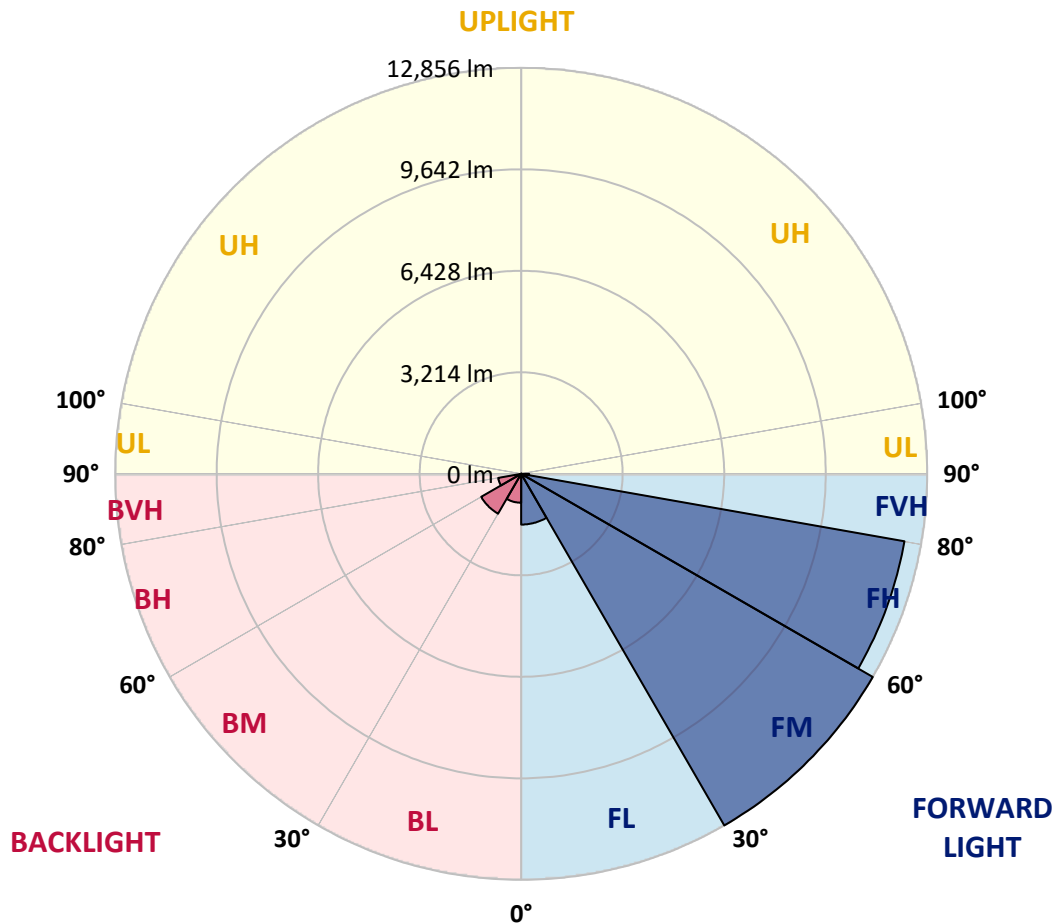
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1606.9	5.3			
FM	(30°-60°)	12856.2	42.6			
FH	(60°-80°)	12324.5	40.9			G5
FVH	(80°-90°)	251.1	0.8			G3/500
BL	(0°-30°)	915.8	3.0	B2/1000		
BM	(30°-60°)	1459.6	4.8	B2/2500		
BH	(60°-80°)	739.4	2.5	B2/1000		G2/1000
BVH	(80°-90°)	5.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0
2.5°	3518.0	3488.0	3490.0	3487.0	3476.0	3484.0	3479.0	3477.0	3469.0	3466.0	3465.0
5°	3458.0	3430.0	3439.0	3447.0	3447.0	3467.0	3471.0	3473.0	3464.0	3459.0	3453.0
7.5°	3364.0	3341.0	3356.0	3384.0	3404.0	3449.0	3473.0	3491.0	3489.0	3490.0	3483.0
10°	3286.0	3264.0	3293.0	3335.0	3376.0	3442.0	3489.0	3534.0	3560.0	3578.0	3576.0
12.5°	3260.0	3241.0	3268.0	3318.0	3371.0	3448.0	3519.0	3601.0	3663.0	3699.0	3694.0
15°	3264.0	3244.0	3271.0	3325.0	3383.0	3473.0	3577.0	3704.0	3796.0	3829.0	3835.0
17.5°	3296.0	3272.0	3293.0	3343.0	3412.0	3527.0	3673.0	3832.0	3948.0	3992.0	3991.0
20°	3339.0	3312.0	3331.0	3376.0	3457.0	3611.0	3795.0	3987.0	4122.9	4166.9	4160.9
22.5°	3403.0	3373.0	3387.0	3431.0	3535.0	3730.0	3939.0	4160.9	4310.9	4353.9	4335.9
25°	3578.0	3531.0	3503.0	3510.0	3635.0	3877.0	4136.9	4371.9	4528.9	4544.9	4516.9
27.5°	4025.0	3991.0	3850.0	3713.0	3757.0	4036.0	4390.9	4666.9	4808.9	4783.9	4745.9
30°	4945.9	4816.9	4594.9	4239.9	4031.0	4205.9	4635.9	5011.9	5140.9	5082.9	5009.9
32.5°	6045.9	5893.9	5567.9	5053.9	4586.9	4494.9	4928.9	5377.9	5527.9	5415.9	5341.9
35°	7129.9	7071.9	6732.9	6107.9	5424.9	5016.9	5323.9	5852.9	6061.9	5960.9	5883.9
37.5°	8362.9	8226.9	7937.9	7214.9	6443.9	5772.9	5864.9	6556.9	6845.9	6699.9	6578.9
40°	9600.9	9451.9	9161.9	8355.9	7614.9	6836.9	6646.9	7433.9	7829.9	7642.9	7440.9
42.5°	10823.9	10806.9	10436.9	9693.9	8851.9	8158.9	7763.9	8449.9	8943.9	8730.9	8393.9
45°	12402.8	12245.9	11778.9	11111.9	10396.9	9654.9	9157.9	9720.9	10313.9	9869.9	9332.9
47.5°	13374.8	13284.8	12909.8	12492.8	12078.9	11382.9	10705.9	11122.9	11626.9	11043.9	10268.9
50°	14202.8	14095.8	13829.8	13685.8	13665.8	13262.8	12372.8	12519.8	12945.8	12268.9	11167.9
52.5°	14716.8	14616.8	14445.8	14649.8	15125.8	15226.8	14000.8	13967.8	14387.8	13490.8	12021.9
55°	14728.8	14499.8	14634.8	15226.8	16326.8	16755.8	15675.8	15473.8	15628.8	14789.8	12820.8
57.5°	14214.8	14133.8	14532.8	15484.8	17104.8	17890.8	17233.8	16805.8	16924.8	16056.8	13514.8
60°	13163.8	13174.8	14051.8	15392.8	17572.8	18794.8	18682.8	18387.8	18223.8	17237.8	14052.8
62.5°	11687.9	11762.9	12886.8	14835.8	17473.8	19264.8	19943.8	19626.8	19229.8	18223.8	14354.8
65°	10039.9	10008.9	11216.9	13657.8	16581.8	19269.8	20790.7	20561.7	19987.8	18741.8	14268.8
67.5°	8155.9	8090.9	9187.9	11773.9	15182.8	18643.8	21013.7	21065.7	20193.8	18519.8	13624.8
68°	7750.9	7692.9	8744.9	11311.9	14823.8	18448.8	21006.7	21074.7	20152.8	18352.8	13409.8
70°	6059.9	6000.9	6859.9	9159.9	13011.8	17272.8	20675.7	20831.7	19620.8	17221.8	12181.9
72.5°	3402.0	3509.0	4279.9	6203.9	9706.9	14811.8	19329.8	19485.8	17687.8	13815.8	9166.9
75°	1095.0	1083.0	1743.0	2988.0	5537.9	10020.9	15833.8	15842.8	13283.8	8367.9	5064.9
77.5°	576.0	581.0	702.0	1216.0	2249.0	4406.9	9694.9	9968.9	6879.9	3176.0	1730.0
80°	359.0	365.0	435.0	701.0	1225.0	1499.0	4237.9	4249.9	1987.0	722.0	413.0
82.5°	242.0	246.0	304.0	455.0	815.0	613.0	1292.0	1278.0	563.0	228.0	138.0
85°	115.0	117.0	196.0	312.0	399.0	254.0	373.0	395.0	279.0	108.0	59.0
87.5°	24.0	27.0	99.0	136.0	120.0	50.0	105.0	84.0	114.0	44.0	27.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0
2.5°	3469.0	3472.0	3463.0	3447.0	3445.0	3441.0	3448.0	3446.0	3448.0	3425.0
5°	3455.0	3451.0	3434.0	3415.0	3411.0	3404.0	3407.0	3399.0	3400.0	3370.0
7.5°	3485.0	3473.0	3443.0	3404.0	3356.0	3296.0	3251.0	3203.0	3199.0	3163.0
10°	3579.0	3560.0	3506.0	3387.0	3233.0	3024.0	2831.0	2653.0	2606.0	2536.0
12.5°	3693.0	3665.0	3548.0	3303.0	2927.0	2493.0	2112.0	1917.0	1833.0	1793.0
15°	3827.0	3772.0	3540.0	3051.0	2368.0	1793.0	1444.0	1237.0	1188.0	1154.0
17.5°	3984.0	3874.0	3458.0	2570.0	1782.0	1252.0	1018.0	958.0	951.0	950.0
20°	4145.9	3953.0	3229.0	2048.0	1271.0	958.0	912.0	891.0	882.0	879.0
22.5°	4306.9	3997.0	2830.0	1552.0	957.0	885.0	852.0	822.0	808.0	797.0
25°	4482.9	3991.0	2361.0	1122.0	871.0	827.0	780.0	738.0	718.0	704.0
27.5°	4693.9	3893.0	1879.0	887.0	809.0	754.0	694.0	642.0	613.0	606.0
30°	4937.9	3662.0	1417.0	785.0	730.0	672.0	595.0	528.0	499.0	493.0
32.5°	5241.9	3339.0	1003.0	699.0	638.0	575.0	488.0	417.0	387.0	374.0
35°	5666.9	2962.0	766.0	618.0	546.0	469.0	379.0	325.0	299.0	294.0
37.5°	6182.9	2571.0	654.0	546.0	464.0	371.0	291.0	253.0	236.0	233.0
40°	6772.9	2175.0	584.0	479.0	387.0	288.0	226.0	196.0	189.0	188.0
42.5°	7350.9	1739.0	530.0	418.0	314.0	223.0	173.0	156.0	154.0	155.0
45°	7829.9	1286.0	477.0	362.0	249.0	172.0	137.0	126.0	129.0	131.0
47.5°	8211.9	898.0	426.0	304.0	195.0	139.0	113.0	106.0	111.0	113.0
50°	8496.9	668.0	377.0	248.0	157.0	116.0	96.0	90.0	98.0	100.0
52.5°	8677.9	552.0	322.0	199.0	131.0	100.0	81.0	76.0	86.0	89.0
55°	8774.9	478.0	273.0	163.0	113.0	86.0	68.0	65.0	76.0	79.0
57.5°	8756.9	415.0	228.0	137.0	101.0	76.0	57.0	55.0	67.0	71.0
60°	8593.9	356.0	187.0	115.0	90.0	67.0	49.0	47.0	60.0	63.0
62.5°	8304.9	294.0	151.0	98.0	81.0	60.0	42.0	40.0	51.0	54.0
65°	7816.9	228.0	118.0	85.0	73.0	53.0	36.0	31.0	41.0	43.0
67.5°	7148.9	175.0	95.0	73.0	66.0	48.0	30.0	24.0	31.0	33.0
68°	6983.9	166.0	91.0	70.0	64.0	47.0	29.0	23.0	30.0	31.0
70°	6151.9	137.0	77.0	61.0	58.0	42.0	25.0	18.0	23.0	24.0
72.5°	4205.9	109.0	63.0	51.0	48.0	36.0	20.0	13.0	17.0	17.0
75°	1385.0	83.0	49.0	37.0	35.0	27.0	14.0	9.0	11.0	11.0
77.5°	304.0	55.0	32.0	23.0	21.0	17.0	9.0	4.0	6.0	6.0
80°	96.0	28.0	18.0	13.0	12.0	9.0	5.0	1.0	1.0	2.0
82.5°	37.0	14.0	13.0	10.0	8.0	6.0	3.0	0.0	0.0	0.0
85°	19.0	10.0	10.0	8.0	6.0	4.0	2.0	0.0	0.0	0.0
87.5°	11.0	9.0	9.0	7.0	5.0	2.0	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

(END OF REPORT)