

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: P639102

Luminaire Tested: **USSL-M-C099-D-U-T2-BZ-7030-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-C099-D-U-T2-BZ-7030-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62432 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 486.6
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

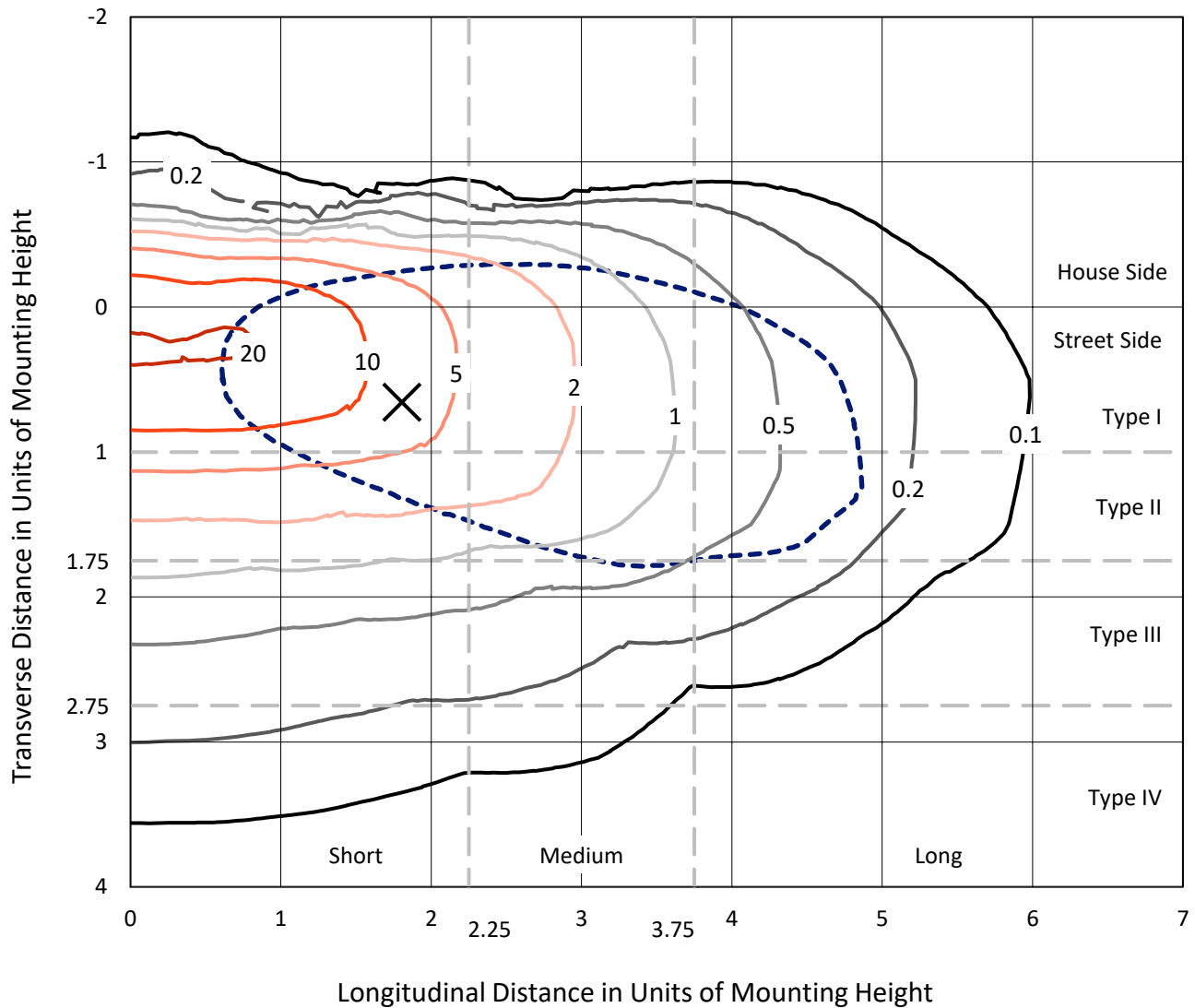


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

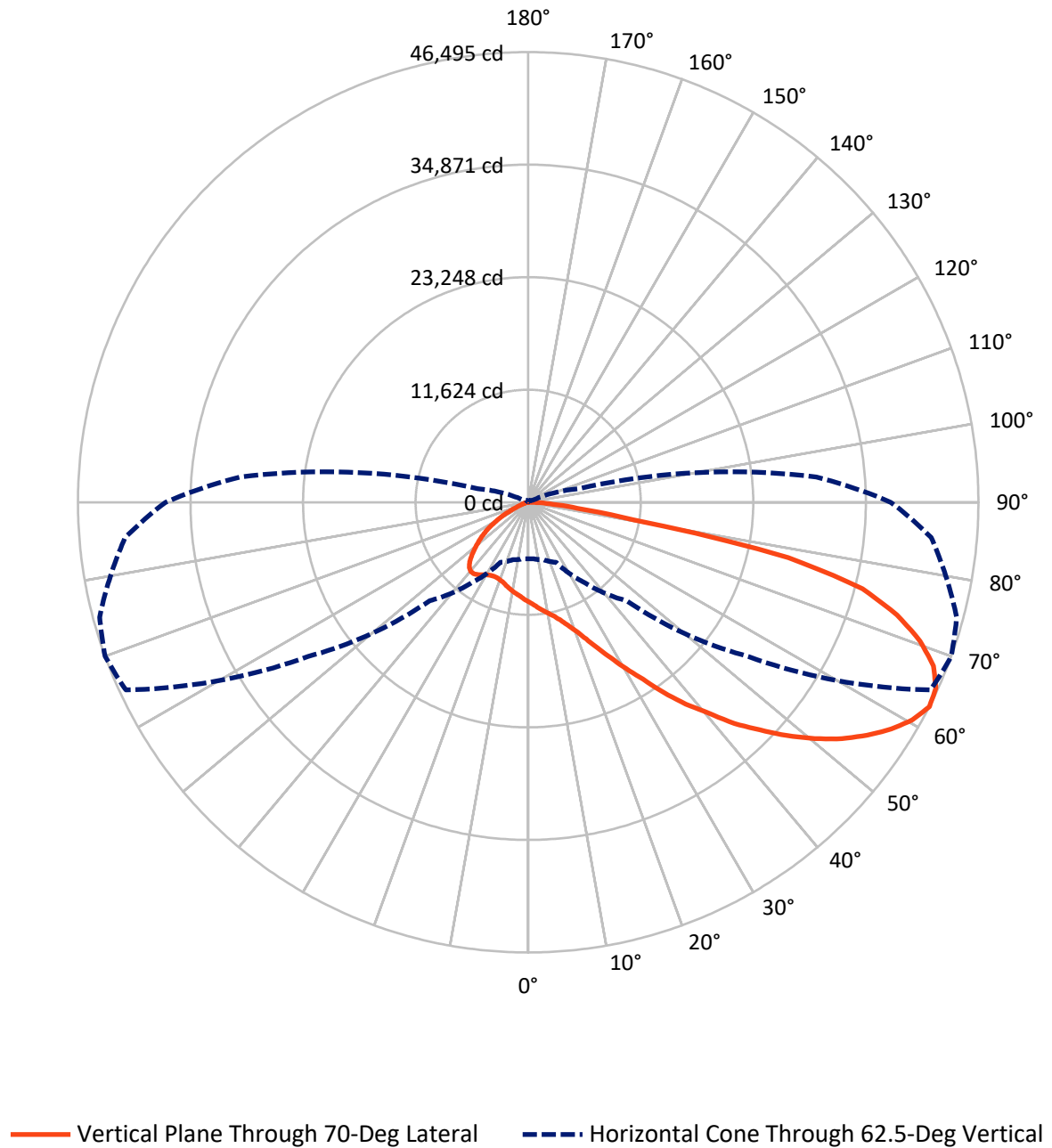


Based on 25 foot mounting height. Maximum calculated value = 21 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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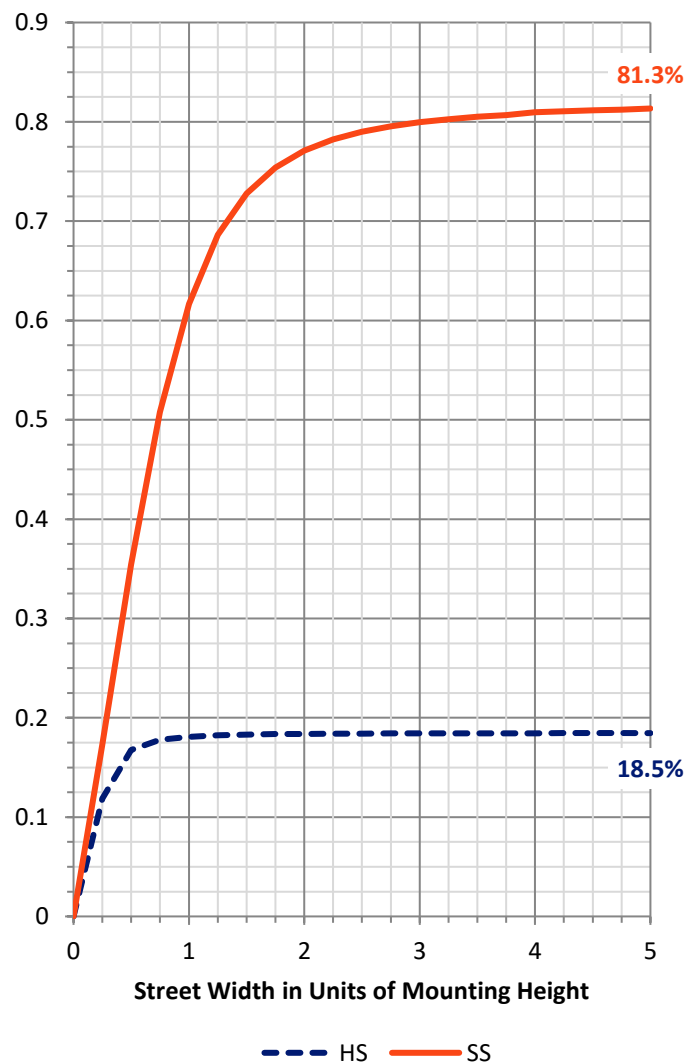
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11659.8	0.0	11659.8
	% Fixture	18.7	0.0	18.7
Street Side	Lumens	50772.2	0.0	50772.2
	% Fixture	81.3	0.0	81.3
Total	Lumens	62432.0	0.0	62432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	988.1	1.6
10°-20°	2994.9	4.8
20°-30°	5177.4	8.3
30°-40°	7834.3	12.5
40°-50°	10668.4	17.1
50°-60°	12596.6	20.2
60°-70°	12738.7	20.4
70°-80°	8371.2	13.4
80°-90°	1062.3	1.7
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°	62432.0	100.0
0°-180°	62432.0	100.0

Coefficient of Utilization



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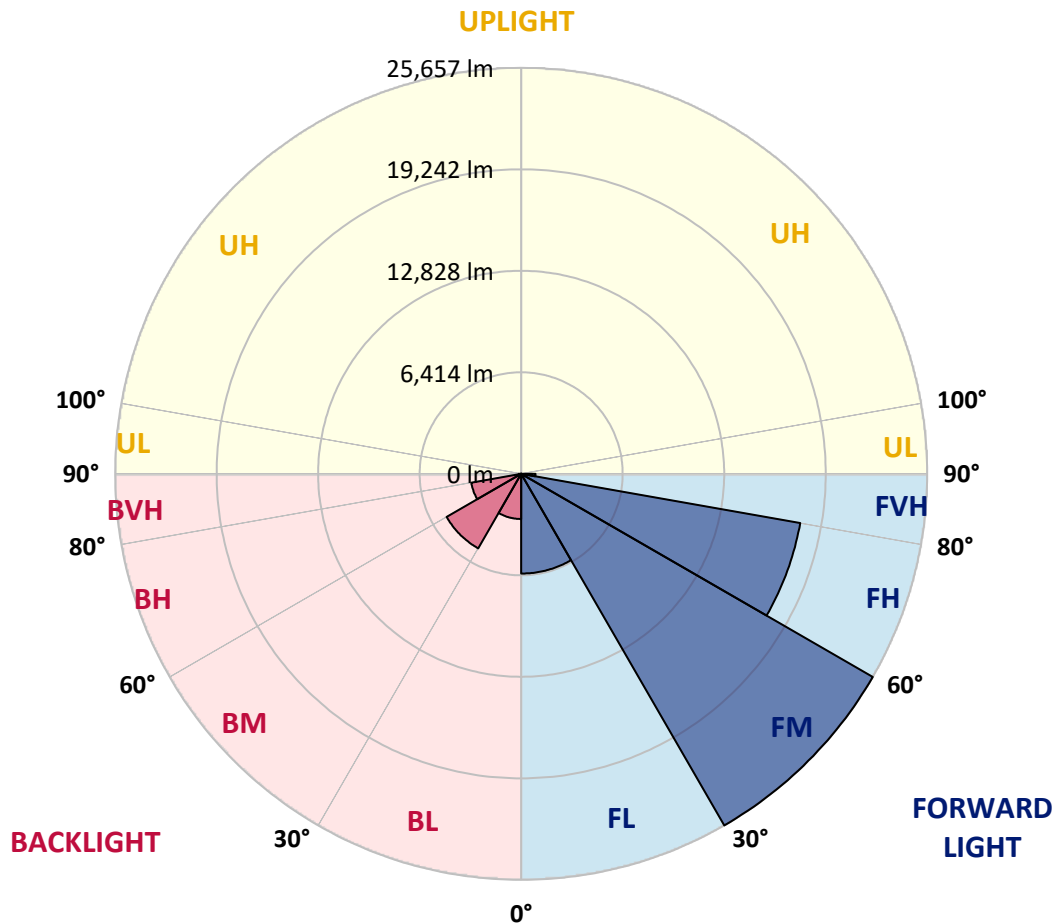
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6302.1	10.1			
FM	(30°-60°)	25656.5	41.1			
FH	(60°-80°)	17906.6	28.7			G5
FVH	(80°-90°)	906.9	1.5			G5
BL	(0°-30°)	2858.4	4.6	B4/5000		
BM	(30°-60°)	5442.8	8.7	B4/8500		
BH	(60°-80°)	3203.2	5.1	B4/5000		G4/5000
BVH	(80°-90°)	155.4	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	10293.0	10293.0	10293.0	10293.0	10293.0	10293.0	10293.0	10293.0	10293.0	10293.0	10293.0
2.5°	11045.8	11041.8	11069.8	11047.1	10959.0	10825.6	10777.5	10668.0	10583.9	10522.5	10414.4
5°	11856.1	11857.4	11862.7	11763.9	11625.1	11451.6	11280.7	11081.8	10941.7	10792.2	10537.2
7.5°	12575.5	12588.9	12595.6	12506.1	12315.2	12060.3	11792.0	11514.3	11302.1	11115.2	10701.4
10°	13186.9	13220.3	13206.9	13149.5	12934.6	12699.7	12353.9	11949.5	11669.2	11418.2	10860.3
12.5°	13807.6	13822.3	13787.6	13660.8	13513.9	13264.3	12906.6	12451.4	12100.3	11802.7	11072.5
15°	14439.0	14440.3	14382.9	14253.4	14043.9	13845.0	13535.3	13048.1	12661.0	12293.9	11383.5
17.5°	14950.2	14998.3	14918.2	14824.7	14671.2	14437.6	14233.4	13771.5	13368.4	12947.9	11833.4
20°	15416.1	15456.1	15461.5	15372.0	15314.6	15138.4	14978.2	14624.5	14204.0	13740.8	12434.0
22.5°	15793.8	15841.9	15902.0	15976.7	16066.1	15971.4	15942.0	15685.7	15324.0	14811.4	13281.7
25°	16058.1	16103.5	16341.1	16600.1	16793.6	16928.4	17072.6	17007.2	16686.8	16112.9	14392.2
27.5°	16172.9	16238.3	16577.4	17072.6	17581.2	17912.2	18340.7	18488.9	18195.2	17746.7	15736.4
30°	16210.3	16287.7	16696.2	17356.9	18263.3	18978.8	19594.1	20074.7	19934.5	19471.3	17356.9
32.5°	16064.8	16118.2	16578.7	17505.1	18785.2	20052.0	20866.2	21784.6	21769.9	21549.7	19216.4
35°	15574.9	15663.0	16249.0	17483.7	19229.7	21019.7	22129.0	23652.0	24141.9	23917.7	21489.6
37.5°	14938.2	15023.6	15733.8	17223.4	19495.3	21846.0	23533.2	25803.8	26443.2	26121.5	23494.5
40°	14188.0	14298.8	15087.7	16750.9	19567.4	22501.4	24790.7	27890.2	28566.9	28386.7	25514.1
42.5°	13288.3	13419.1	14313.5	16175.6	19425.9	23010.0	26088.1	30389.0	31229.9	30993.7	27505.7
45°	12412.7	12455.4	13287.0	15214.5	19052.2	23411.8	27206.7	32404.6	33535.2	33273.6	29608.1
47.5°	11511.7	11617.1	12408.7	14158.6	18191.2	23545.2	28262.6	34752.6	35998.0	35682.9	31881.3
50°	9533.4	9657.6	11336.8	13150.8	17040.6	23272.9	29359.8	37093.9	38362.0	37780.0	33862.2
52.5°	7742.1	7822.2	8975.5	12172.4	15643.0	22564.1	30334.2	39435.2	40568.5	39934.4	35707.0
55°	7113.4	7181.4	7671.3	10565.3	14358.9	21232.0	30868.2	41821.9	42463.9	41716.4	37487.7
57.5°	6715.6	6782.3	7068.0	8555.0	13016.0	19101.6	30992.3	43574.5	44200.6	43300.9	39008.0
60°	6187.0	6260.4	6684.9	7497.8	11569.1	16552.0	30203.4	45175.0	45600.8	44711.8	40499.1
62.5°	5822.6	5853.3	6144.3	6850.4	10096.7	14370.9	27778.0	45849.1	46495.2	45811.7	41779.2
65°	5386.1	5463.5	5707.8	6349.8	8970.1	12961.3	25203.1	45092.2	46268.2	46085.4	42480.0
67.5°	4909.5	4957.6	5204.5	5729.1	7799.5	11854.7	22585.5	43635.9	45126.9	45289.8	42032.8
70°	4389.0	4389.0	4607.9	5047.0	6435.3	10451.8	18586.3	41441.4	42945.8	43090.0	39774.2
72.5°	3714.9	3726.9	3975.2	4356.9	5339.4	8830.0	14460.3	37772.0	39838.3	40345.5	36075.4
75°	2927.3	2978.0	3259.7	3697.5	4355.6	7086.7	10457.1	30115.3	35646.9	36674.7	31408.8
77.5°	634.0	835.6	1972.9	2560.2	3373.1	5532.9	6443.3	17713.3	27461.7	29737.6	24772.0
80°	281.7	320.4	979.8	1643.2	1959.5	3564.0	3463.9	7973.0	10972.4	16740.2	16191.6
82.5°	138.8	189.5	416.5	1031.8	1173.3	1254.7	1329.5	3788.3	5125.8	6193.7	6926.5
85°	38.7	64.1	214.9	412.5	491.2	304.3	493.9	1780.7	2604.3	2984.7	2876.6
87.5°	0.0	0.0	61.4	128.1	113.5	42.7	132.1	567.3	853.0	1015.8	877.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10293.0	10293.0	10293.0	10293.0	10293.0	10293.0	10293.0	10293.0	10293.0	10293.0	10293.0
2.5°	10354.4	10256.9	10136.8	9959.2	9823.1	9708.3	9637.5	9506.7	9473.4	9465.4	9429.3
5°	10395.7	10215.5	9921.9	9612.2	9361.2	9119.6	8963.5	8835.3	8729.9	8752.5	8659.1
7.5°	10487.8	10231.5	9777.7	9330.5	8918.1	8605.7	8357.4	8125.2	8022.4	8022.4	7958.3
10°	10566.6	10234.2	9650.9	9063.6	8523.0	8079.8	7760.8	7545.9	7379.0	7326.9	7305.6
12.5°	10677.4	10247.6	9493.4	8781.9	8159.9	7560.5	7188.1	6923.8	6789.0	6739.6	6618.1
15°	10876.3	10338.3	9350.6	8466.9	7726.1	7074.7	6606.1	6345.8	6191.0	6136.3	6113.6
17.5°	11200.6	10519.9	9251.8	8121.2	7298.9	6595.4	6089.5	5777.2	5617.0	5488.9	5474.2
20°	11635.8	10810.9	9221.1	7847.5	6843.7	6120.2	5516.9	5140.5	4838.8	4654.6	4657.3
22.5°	12287.2	11236.7	9277.1	7600.6	6451.3	5638.4	4938.9	4367.6	3861.7	3640.1	3590.7
25°	13202.9	11880.1	9425.3	7399.0	6057.5	5141.8	4150.0	3307.7	2820.5	2594.9	2545.5
27.5°	14376.2	12786.4	9700.3	7228.2	5685.1	4446.4	3191.6	2373.3	1931.5	1731.3	1648.5
30°	15644.3	13919.7	10136.8	7088.0	5212.6	3485.3	2271.9	1632.5	1224.0	1094.6	1094.6
32.5°	17469.1	15286.6	10694.7	6927.8	4593.2	2504.2	1513.7	1054.5	775.5	690.1	690.1
35°	19417.9	16887.1	11398.2	6743.6	3713.5	1712.6	942.4	622.0	512.6	513.9	512.6
37.5°	21106.5	18299.3	12076.3	6463.3	2708.4	1095.9	558.0	451.2	436.5	424.5	436.5
40°	22965.9	19778.3	12568.9	6005.4	1778.0	634.0	397.8	405.8	389.8	361.7	352.4
42.5°	24621.1	21115.8	12902.6	5276.6	1119.9	395.1	348.4	364.4	361.7	323.0	299.0
45°	26379.1	22550.8	13053.4	4176.7	615.4	357.7	307.0	340.4	339.0	295.0	271.0
47.5°	28107.7	23877.6	12989.3	2843.2	415.1	327.0	283.0	303.0	312.4	269.6	244.3
50°	30347.6	25077.6	12630.3	1635.2	379.1	305.7	263.0	256.3	276.3	232.3	217.6
52.5°	32094.9	26288.3	11901.4	877.0	359.1	291.0	242.9	214.9	232.3	190.9	201.6
55°	33667.3	27320.2	10626.7	604.7	355.1	276.3	233.6	189.5	193.6	165.5	162.9
57.5°	35231.8	28299.9	9010.2	532.6	360.4	277.6	212.2	165.5	150.8	134.8	112.1
60°	36487.9	29309.1	7204.1	488.6	363.1	275.0	185.5	144.2	109.5	92.1	88.1
62.5°	37451.6	29859.0	5406.1	455.2	353.7	252.3	168.2	120.1	88.1	66.7	64.1
65°	37908.1	29796.3	3642.8	420.5	349.7	241.6	154.8	101.4	69.4	52.1	49.4
67.5°	37171.3	28318.6	2313.3	385.8	343.1	230.9	145.5	88.1	60.1	42.7	40.0
70°	34699.2	25845.2	1374.9	345.7	325.7	212.2	140.2	78.8	52.1	33.4	28.0
72.5°	30734.7	22355.9	867.6	289.7	295.0	178.9	104.1	66.7	44.0	20.0	17.4
75°	25803.8	17956.3	627.4	214.9	240.3	141.5	82.8	57.4	36.0	12.0	10.7
77.5°	20038.6	12091.0	480.5	141.5	160.2	100.1	58.7	44.0	26.7	6.7	5.3
80°	12220.5	6974.5	377.8	80.1	98.8	58.7	26.7	28.0	12.0	1.3	0.0
82.5°	5896.0	3191.6	218.9	42.7	33.4	30.7	6.7	0.0	1.3	0.0	0.0
85°	2062.3	961.1	41.4	25.4	10.7	9.3	0.0	0.0	0.0	0.0	0.0
87.5°	552.6	170.9	12.0	10.7	1.3	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)