

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: P639018

Luminaire Tested: **USSL-M-C097-D-U-T2-BZ-7030-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639018
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-C097-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: 45924 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 346
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



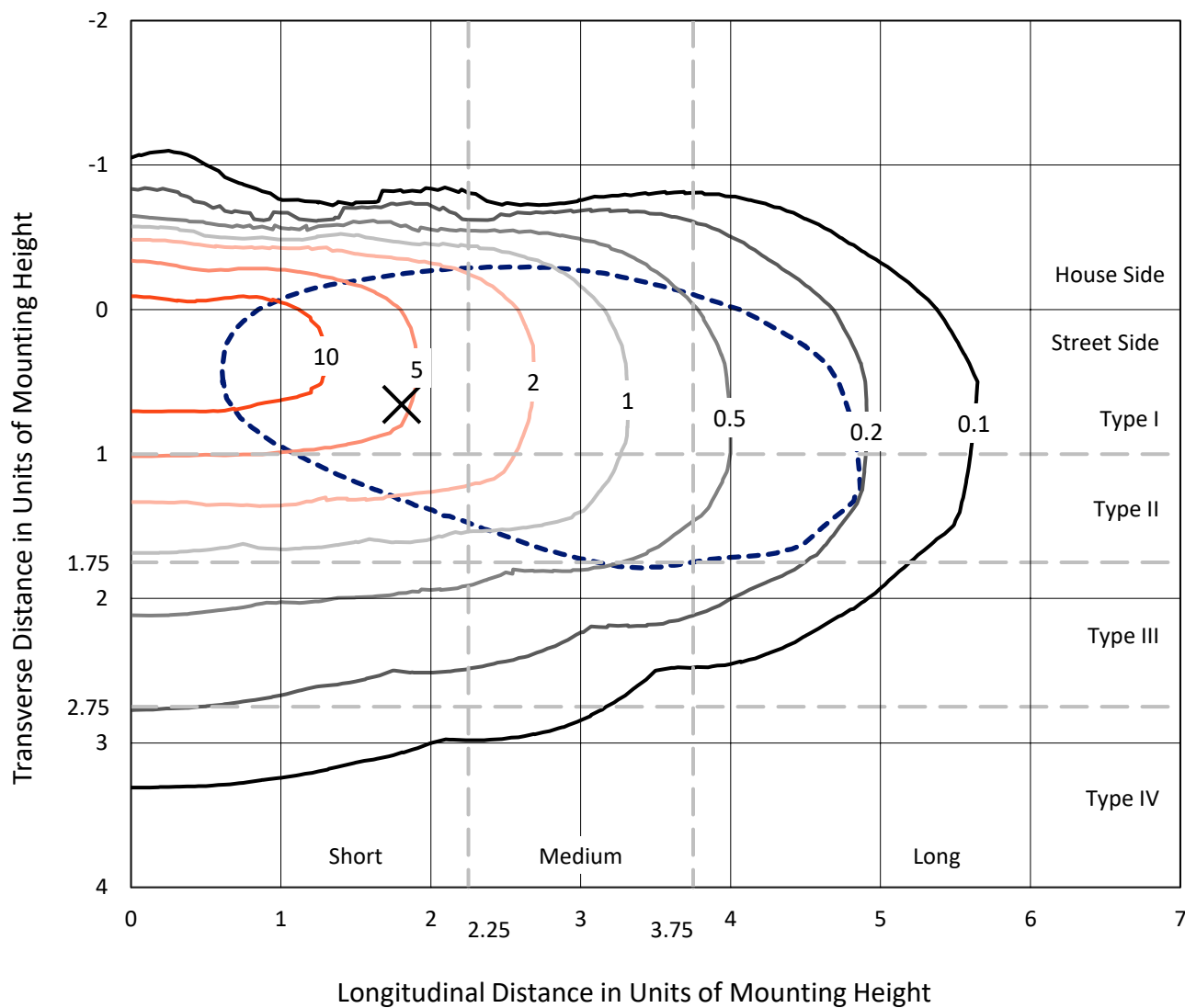
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

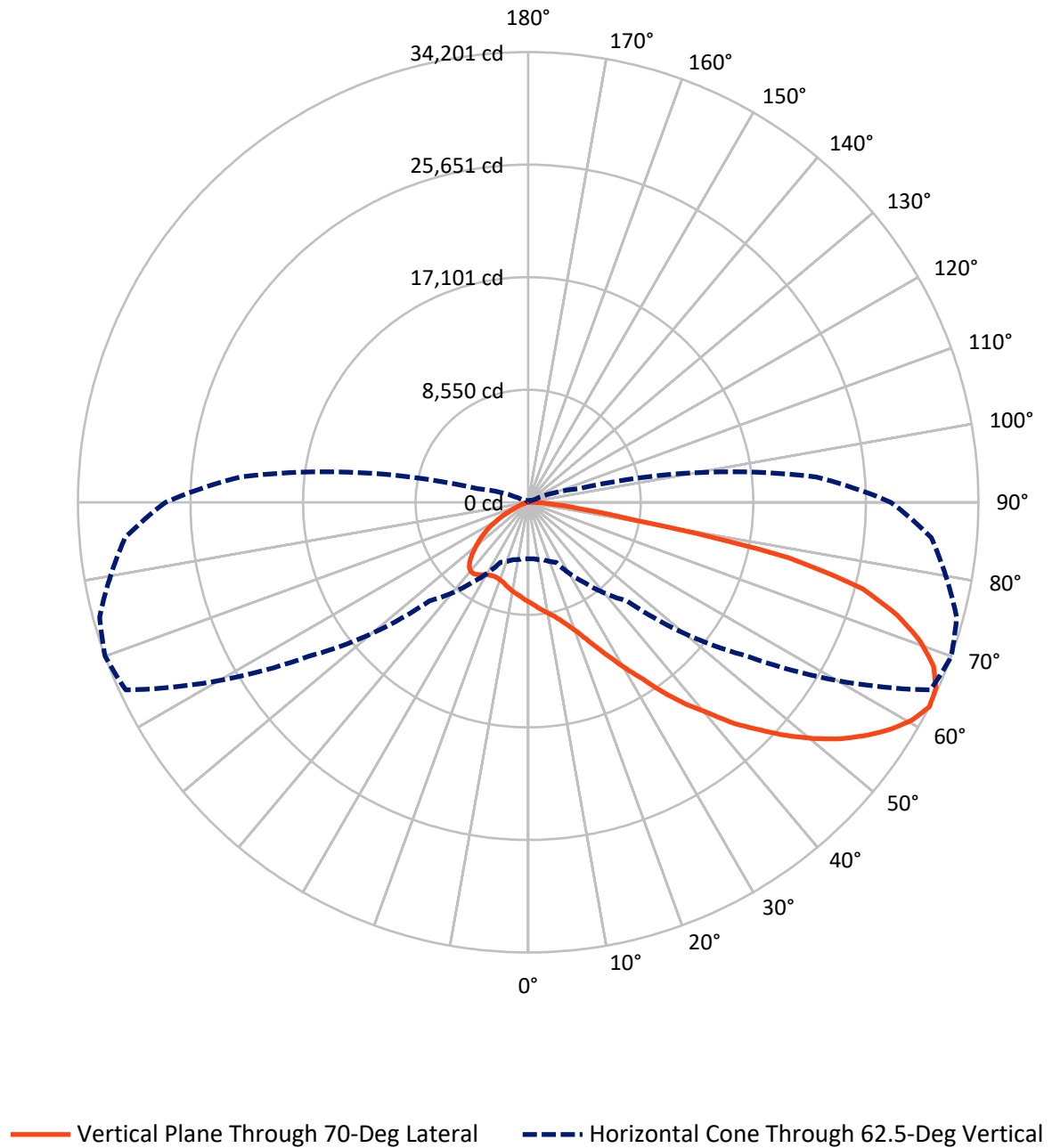


Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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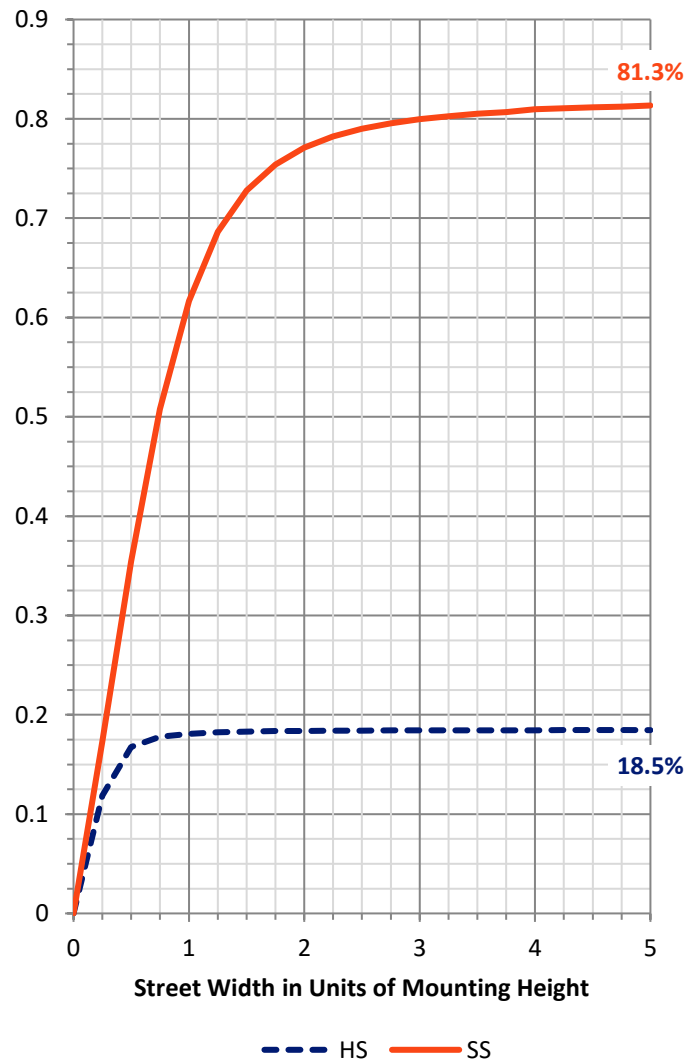
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8576.8	0.0	8576.8
	% Fixture	18.7	0.0	18.7
Street Side	Lumens	37347.2	0.0	37347.2
	% Fixture	81.3	0.0	81.3
Total	Lumens	45924.0	0.0	45924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.9	1.6
10°-20°	2203.0	4.8
20°-30°	3808.4	8.3
30°-40°	5762.8	12.5
40°-50°	7847.5	17.1
50°-60°	9265.9	20.2
60°-70°	9370.4	20.4
70°-80°	6157.7	13.4
80°-90°	781.4	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°	45924.0	100.0
0°-180°	45924.0	100.0

Coefficient of Utilization



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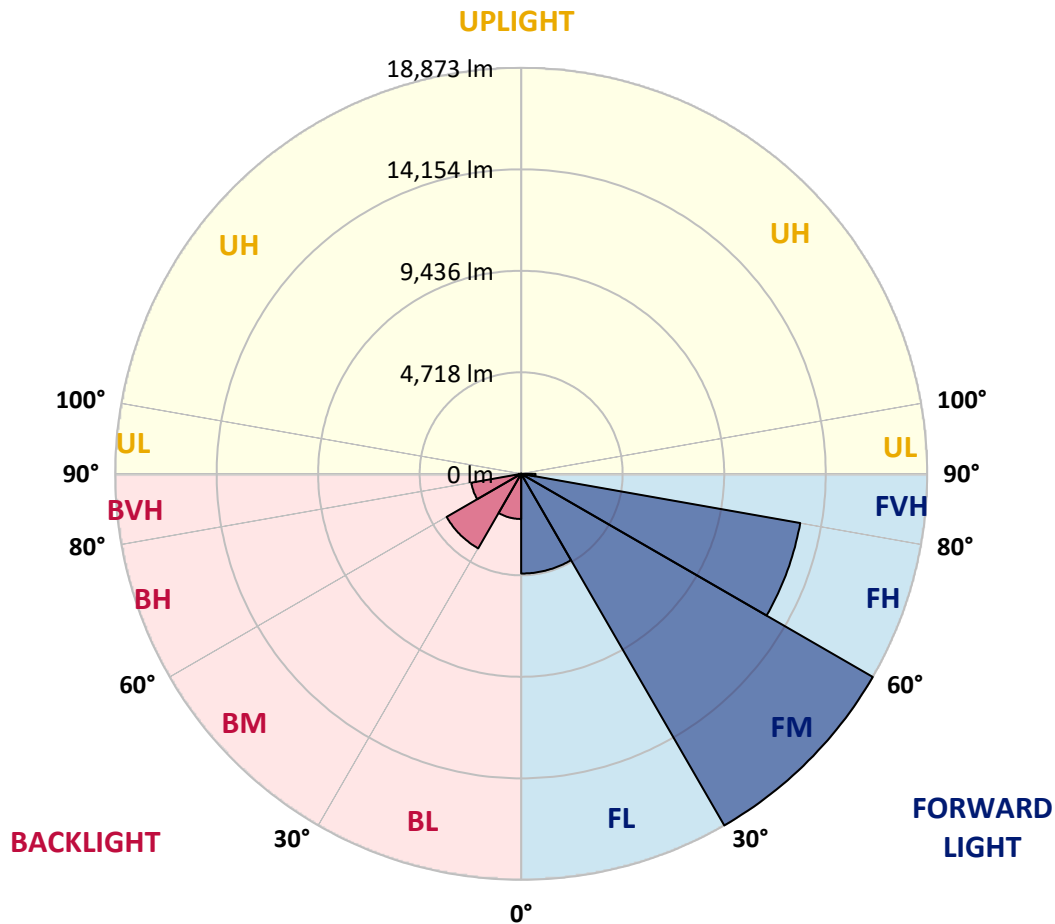
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4635.7	10.1			
FM	(30°-60°)	18872.5	41.1			
FH	(60°-80°)	13171.8	28.7			G5
FVH	(80°-90°)	667.1	1.5			G4/750
BL	(0°-30°)	2102.6	4.6	B3/2500		
BM	(30°-60°)	4003.7	8.7	B3/5000		
BH	(60°-80°)	2356.2	5.1	B3/2500		G3/2500
BVH	(80°-90°)	114.3	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	7571.3	7571.3	7571.3	7571.3	7571.3	7571.3	7571.3	7571.3	7571.3	7571.3	7571.3
2.5°	8125.1	8122.2	8142.8	8126.1	8061.3	7963.1	7927.8	7847.2	7785.4	7740.2	7660.7
5°	8721.1	8722.1	8726.0	8653.4	8551.3	8423.6	8297.9	8151.6	8048.5	7938.6	7751.0
7.5°	9250.4	9260.2	9265.1	9199.3	9058.9	8871.4	8674.0	8469.8	8313.6	8176.2	7871.8
10°	9700.1	9724.6	9714.8	9672.6	9514.5	9341.7	9087.4	8789.9	8583.7	8399.1	7988.6
12.5°	10156.6	10167.4	10141.9	10048.6	9940.6	9757.0	9493.9	9159.0	8900.8	8681.8	8144.8
15°	10621.1	10622.1	10579.8	10484.6	10330.4	10184.1	9956.3	9598.0	9313.2	9043.2	8373.5
17.5°	10997.1	11032.5	10973.6	10904.8	10791.9	10620.1	10469.9	10130.1	9833.6	9524.3	8704.4
20°	11339.8	11369.3	11373.2	11307.4	11265.2	11135.6	11017.8	10757.6	10448.3	10107.5	9146.3
22.5°	11617.7	11653.0	11697.2	11752.2	11818.0	11748.3	11726.7	11538.2	11272.1	10895.0	9769.8
25°	11812.1	11845.5	12020.3	12210.8	12353.1	12452.3	12558.3	12510.2	12274.6	11852.4	10586.7
27.5°	11896.5	11944.7	12194.1	12558.3	12932.4	13175.9	13491.1	13600.1	13384.1	13054.2	11575.5
30°	11924.0	11981.0	12281.4	12767.5	13434.2	13960.5	14413.1	14766.6	14663.5	14322.8	12767.5
32.5°	11817.0	11856.3	12195.0	12876.5	13818.1	14749.9	15348.9	16024.4	16013.6	15851.6	14135.3
35°	11456.7	11521.5	11952.5	12860.8	14145.1	15461.8	16277.7	17398.1	17758.4	17593.5	15807.4
37.5°	10988.3	11051.1	11573.5	12669.3	14340.5	16069.6	17310.7	18980.9	19451.2	19214.6	17282.2
40°	10436.5	10518.0	11098.3	12321.7	14393.5	16551.7	18235.6	20515.6	21013.4	20880.8	18767.8
42.5°	9774.7	9870.9	10528.8	11898.5	14289.4	16925.8	19190.0	22353.7	22972.2	22798.4	20232.8
45°	9130.6	9162.0	9773.7	11191.6	14014.5	17221.3	20012.8	23836.3	24668.0	24475.5	21779.2
47.5°	8467.8	8545.4	9127.6	10414.9	13381.2	17319.5	20789.5	25563.4	26479.5	26247.8	23451.4
50°	7012.6	7104.0	8339.2	9673.6	12534.8	17119.2	21596.6	27285.7	28218.5	27790.4	24908.5
52.5°	5694.9	5753.9	6602.2	8953.8	11506.7	16597.8	22313.4	29007.9	29841.5	29375.1	26265.5
55°	5232.5	5282.6	5642.9	7771.6	10562.2	15617.9	22706.1	30763.5	31235.8	30685.9	27575.3
57.5°	4939.9	4989.0	5199.1	6292.9	9574.4	14050.8	22797.5	32052.7	32513.2	31851.4	28693.7
60°	4551.0	4605.1	4917.3	5515.3	8510.0	12175.4	22217.2	33230.0	33543.2	32889.3	29790.5
62.5°	4283.0	4305.6	4519.6	5039.0	7427.0	10571.0	20433.1	33725.9	34201.1	33698.4	30732.1
65°	3961.9	4018.9	4198.6	4670.8	6598.3	9534.1	18539.0	33169.1	34034.2	33899.7	31247.6
67.5°	3611.4	3646.7	3828.4	4214.3	5737.2	8720.1	16613.5	32097.9	33194.7	33314.5	30918.7
70°	3228.4	3228.4	3389.5	3712.5	4733.7	7688.2	13671.8	30483.7	31590.3	31696.3	29257.3
72.5°	2732.6	2741.4	2924.1	3204.9	3927.5	6495.2	10636.8	27784.5	29304.4	29677.5	26536.5
75°	2153.3	2190.6	2397.8	2719.8	3203.9	5212.8	7692.1	22152.4	26221.3	26977.4	23103.8
77.5°	466.4	614.7	1451.2	1883.3	2481.2	4069.9	4739.6	13029.6	20200.4	21874.5	18221.9
80°	207.2	235.7	720.7	1208.7	1441.4	2621.6	2548.0	5864.8	8071.1	12313.9	11910.3
82.5°	102.1	139.4	306.3	759.0	863.1	923.0	978.0	2786.6	3770.4	4556.0	5095.0
85°	28.5	47.1	158.1	303.4	361.3	223.9	363.3	1309.8	1915.7	2195.5	2116.0
87.5°	0.0	0.0	45.2	94.3	83.5	31.4	97.2	417.3	627.4	747.2	645.1
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°	7571.3	7571.3	7571.3	7571.3	7571.3	7571.3	7571.3	7571.3	7571.3	7571.3	7571.3
2.5°	7616.5	7544.8	7456.5	7325.9	7225.7	7141.3	7089.2	6993.0	6968.5	6962.6	6936.1
5°	7646.9	7514.4	7298.4	7070.6	6886.0	6708.3	6593.4	6499.1	6421.5	6438.2	6369.5
7.5°	7714.7	7526.2	7192.3	6863.4	6560.0	6330.2	6147.6	5976.7	5901.1	5901.1	5854.0
10°	7772.6	7528.1	7099.0	6667.0	6269.4	5943.4	5708.7	5550.6	5427.9	5389.6	5373.9
12.5°	7854.1	7538.0	6983.2	6459.8	6002.3	5561.4	5287.5	5093.1	4993.9	4957.5	4868.2
15°	8000.4	7604.7	6878.1	6228.1	5683.2	5204.0	4859.4	4667.9	4554.0	4513.7	4497.0
17.5°	8239.0	7738.3	6805.5	5973.8	5369.0	4851.5	4479.4	4249.6	4131.8	4037.5	4026.7
20°	8559.1	7952.3	6782.9	5772.5	5034.1	4502.0	4058.1	3781.2	3559.3	3423.8	3425.8
22.5°	9038.3	8265.5	6824.1	5590.9	4745.5	4147.5	3633.0	3212.7	2840.6	2677.6	2641.3
25°	9711.8	8738.8	6933.1	5442.6	4455.8	3782.2	3052.7	2433.1	2074.7	1908.8	1872.5
27.5°	10574.9	9405.5	7135.4	5316.9	4181.9	3270.7	2347.7	1745.8	1420.8	1273.5	1212.6
30°	11507.7	10239.1	7456.5	5213.8	3834.3	2563.7	1671.2	1200.8	900.4	805.1	805.1
32.5°	12850.0	11244.6	7866.9	5096.0	3378.7	1842.0	1113.5	775.7	570.5	507.6	507.6
35°	14283.5	12421.9	8384.3	4960.5	2731.6	1259.8	693.2	457.6	377.0	378.0	377.0
37.5°	15525.6	13460.7	8883.1	4754.3	1992.2	806.1	410.4	331.9	321.1	312.2	321.1
40°	16893.4	14548.6	9245.5	4417.5	1307.9	466.4	292.6	298.5	286.7	266.1	259.2
42.5°	18110.9	15532.5	9490.9	3881.4	823.8	290.6	256.3	268.1	266.1	237.6	219.9
45°	19404.1	16588.0	9601.9	3072.3	452.7	263.1	225.8	250.4	249.4	217.0	199.3
47.5°	20675.6	17564.0	9554.7	2091.4	305.4	240.6	208.2	222.9	229.8	198.3	179.7
50°	22323.2	18446.7	9290.6	1202.8	278.9	224.9	193.4	188.5	203.3	170.8	160.0
52.5°	23608.5	19337.3	8754.5	645.1	264.1	214.1	178.7	158.1	170.8	140.4	148.3
55°	24765.2	20096.3	7816.8	444.8	261.2	203.3	171.8	139.4	142.4	121.8	119.8
57.5°	25915.9	20817.0	6627.7	391.8	265.1	204.2	156.1	121.8	111.0	99.2	82.5
60°	26839.9	21559.3	5299.2	359.4	267.1	202.3	136.5	106.0	80.5	67.8	64.8
62.5°	27548.8	21963.8	3976.6	334.8	260.2	185.6	123.7	88.4	64.8	49.1	47.1
65°	27884.6	21917.7	2679.6	309.3	257.3	177.7	113.9	74.6	51.1	38.3	36.3
67.5°	27342.6	20830.7	1701.6	283.8	252.3	169.9	107.0	64.8	44.2	31.4	29.5
70°	25524.2	19011.3	1011.3	254.3	239.6	156.1	103.1	57.9	38.3	24.5	20.6
72.5°	22608.0	16444.7	638.2	213.1	217.0	131.6	76.6	49.1	32.4	14.7	12.8
75°	18980.9	13208.4	461.5	158.1	176.7	104.1	60.9	42.2	26.5	8.8	7.9
77.5°	14740.1	8893.9	353.5	104.1	117.8	73.6	43.2	32.4	19.6	4.9	3.9
80°	8989.2	5130.4	277.9	58.9	72.7	43.2	19.6	20.6	8.8	1.0	0.0
82.5°	4337.0	2347.7	161.0	31.4	24.5	22.6	4.9	0.0	1.0	0.0	0.0
85°	1517.0	707.0	30.4	18.7	7.9	6.9	0.0	0.0	0.0	0.0	0.0
87.5°	406.5	125.7	8.8	7.9	1.0	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)