

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: P639020

Luminaire Tested: **USSL-M-C097-D-U-T2-BZ-7050-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639020
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-7050-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K 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: 47629 lumens
Efficiency: N/A
Efficacy: 137.7 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

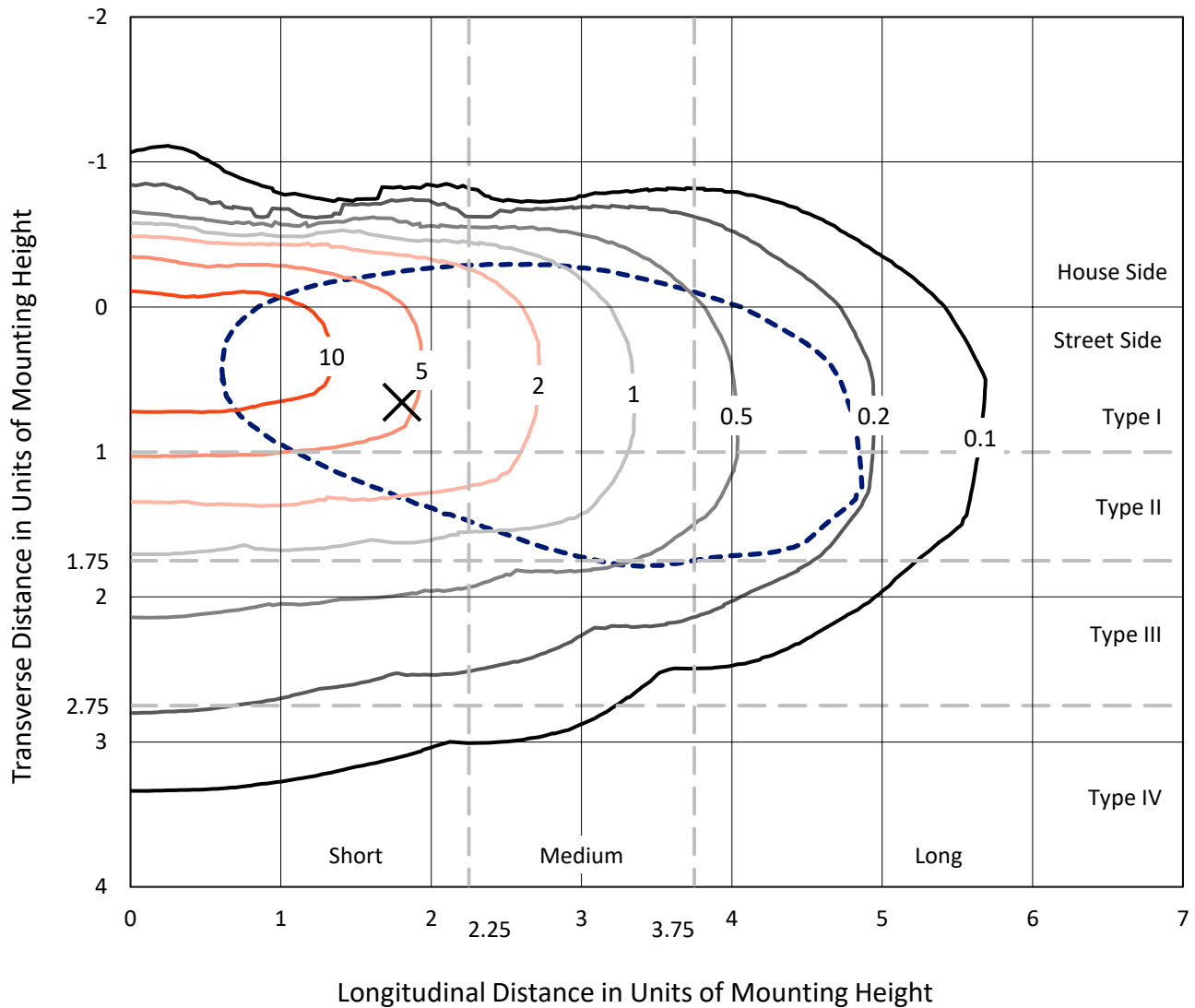


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

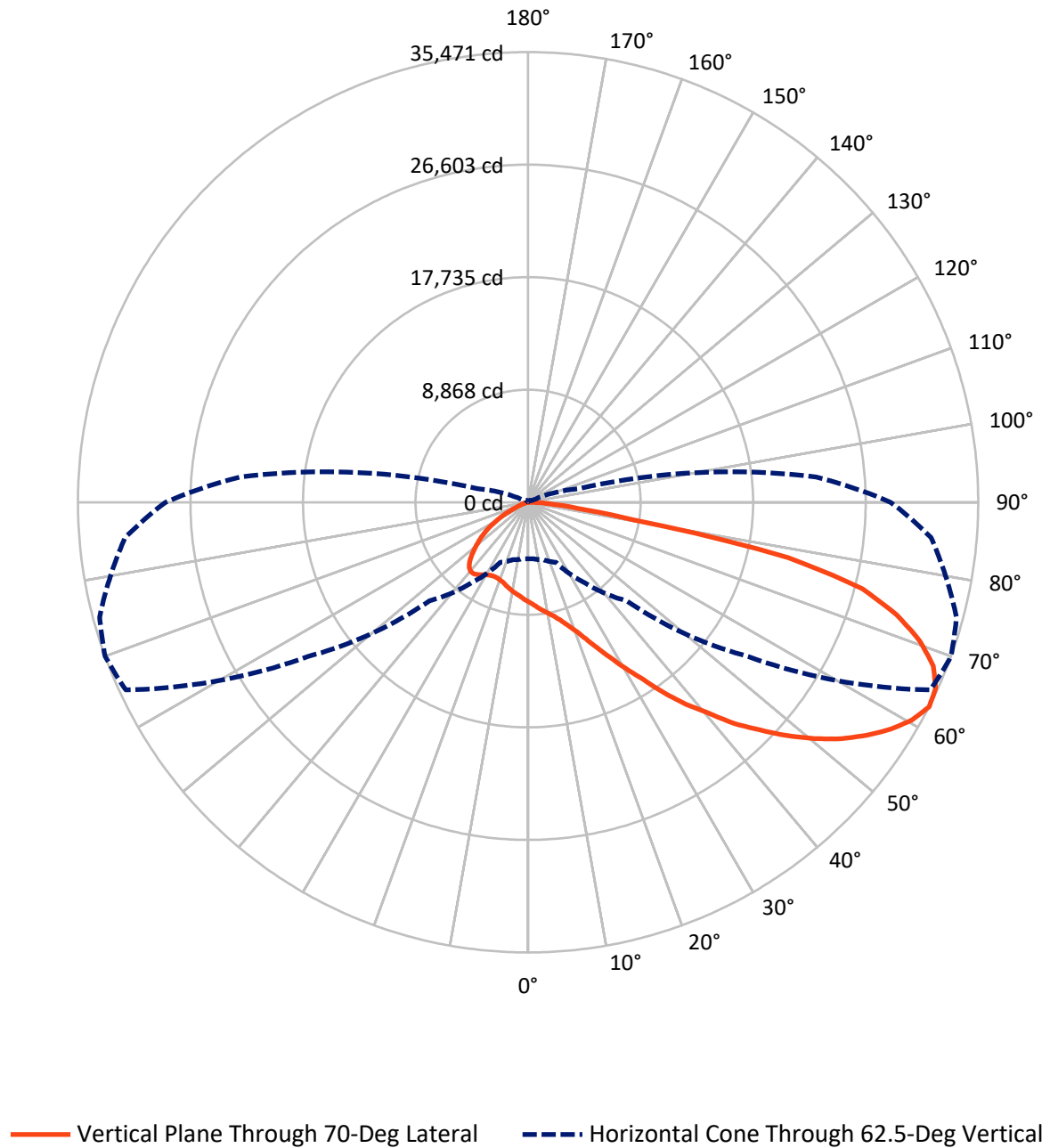


Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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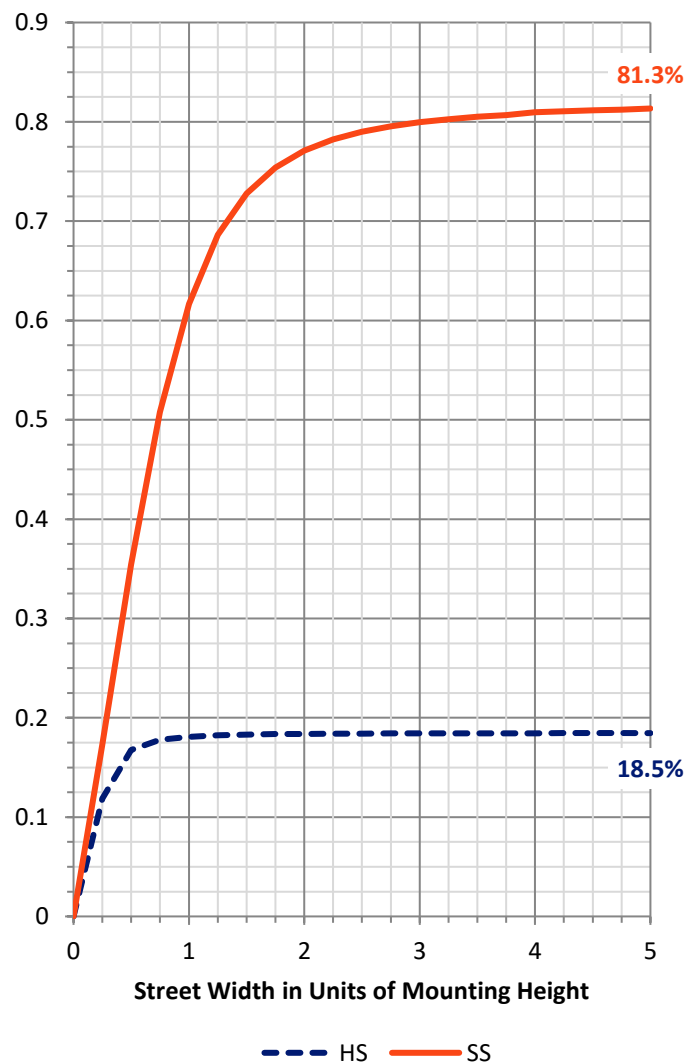
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8895.2	0.0	8895.2
	% Fixture	18.7	0.0	18.7
Street Side	Lumens	38733.8	0.0	38733.8
	% Fixture	81.3	0.0	81.3
Total	Lumens	47629.0	0.0	47629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.8	1.6
10°-20°	2284.8	4.8
20°-30°	3949.8	8.3
30°-40°	5976.7	12.5
40°-50°	8138.9	17.1
50°-60°	9609.9	20.2
60°-70°	9718.3	20.4
70°-80°	6386.3	13.4
80°-90°	810.4	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°	47629.0	100.0
0°-180°	47629.0	100.0

Coefficient of Utilization



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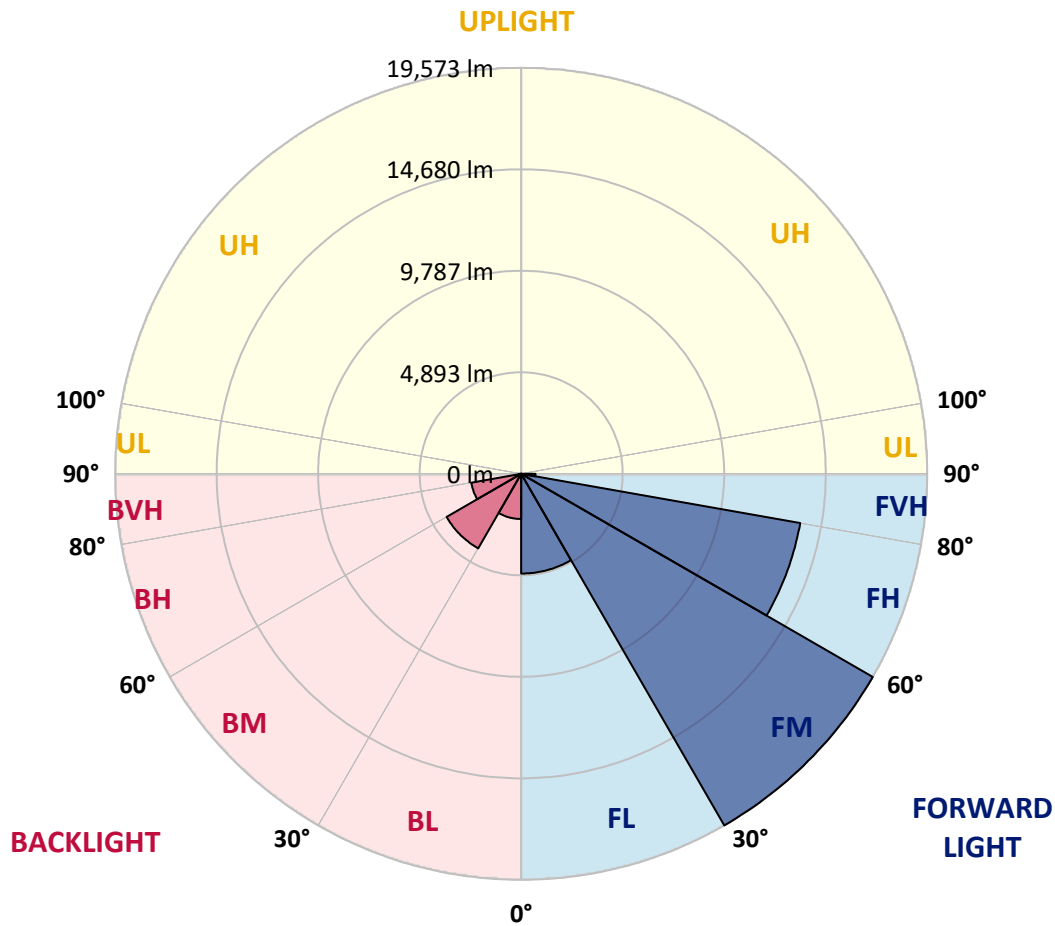
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4807.8	10.1			
FM	(30°-60°)	19573.2	41.1			
FH	(60°-80°)	13660.9	28.7			G5
FVH	(80°-90°)	691.9	1.5			G4/750
BL	(0°-30°)	2180.6	4.6	B3/2500		
BM	(30°-60°)	4152.3	8.7	B3/5000		
BH	(60°-80°)	2443.7	5.1	B3/2500		G3/2500
BVH	(80°-90°)	118.6	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°	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4
2.5°	8426.8	8423.7	8445.1	8427.8	8360.6	8258.8	8222.1	8138.6	8074.4	8027.6	7945.1
5°	9044.9	9045.9	9050.0	8974.6	8868.7	8736.4	8606.0	8454.3	8347.3	8233.3	8038.8
7.5°	9593.8	9604.0	9609.1	9540.8	9395.2	9200.7	8996.0	8784.2	8622.3	8479.7	8164.0
10°	10060.2	10085.7	10075.5	10031.7	9867.7	9688.5	9424.8	9116.2	8902.3	8710.9	8285.2
12.5°	10533.7	10544.9	10518.5	10421.7	10309.7	10119.3	9846.3	9499.1	9231.3	9004.2	8447.1
15°	11015.4	11016.4	10972.6	10873.9	10714.0	10562.2	10326.0	9954.3	9659.0	9378.9	8684.4
17.5°	11405.4	11442.1	11381.0	11309.7	11192.6	11014.4	10858.6	10506.2	10198.7	9877.9	9027.6
20°	11760.8	11791.4	11795.5	11727.2	11683.4	11549.0	11426.8	11157.0	10836.2	10482.8	9485.9
22.5°	12049.0	12085.7	12131.5	12188.5	12256.8	12184.5	12162.1	11966.5	11690.6	11299.5	10132.5
25°	12250.6	12285.3	12466.5	12664.1	12811.8	12914.6	13024.6	12974.7	12730.3	12292.4	10979.8
27.5°	12338.2	12388.1	12646.8	13024.6	13412.6	13665.1	13992.0	14105.0	13881.0	13538.9	12005.2
30°	12366.7	12425.8	12737.4	13241.5	13932.9	14478.8	14948.2	15314.8	15207.9	14854.5	13241.5
32.5°	12255.7	12296.5	12647.8	13354.5	14331.1	15297.5	15918.7	16619.3	16608.1	16440.1	14660.0
35°	11882.0	11949.2	12396.3	13338.2	14670.2	16035.8	16882.1	18044.0	18417.7	18246.6	16394.3
37.5°	11396.3	11461.4	12003.2	13139.7	14872.9	16666.2	17953.4	19685.6	20173.3	19927.9	17923.8
40°	10824.0	10908.5	11510.3	12779.2	14927.9	17166.2	18912.6	21277.2	21793.5	21656.1	19464.6
42.5°	10137.6	10237.4	10919.7	12340.3	14819.9	17554.2	19902.5	23183.6	23825.1	23644.9	20983.9
45°	9469.6	9502.1	10136.6	11607.1	14534.8	17860.7	20755.8	24721.3	25583.8	25384.2	22587.8
47.5°	8782.2	8862.6	9466.5	10801.5	13878.0	17962.5	21561.3	26512.5	27462.6	27222.3	24322.1
50°	7273.0	7367.7	8648.8	10032.7	13000.1	17754.8	22398.4	28298.7	29266.1	28822.1	25833.3
52.5°	5906.4	5967.5	6847.3	9286.3	11933.9	17214.0	23141.8	30084.9	30949.4	30465.7	27240.6
55°	5426.7	5478.7	5852.4	8060.2	10954.3	16197.7	23549.1	31905.7	32395.5	31825.2	28599.1
57.5°	5123.3	5174.2	5392.1	6526.6	9929.8	14572.5	23643.9	33242.7	33720.3	33034.0	29759.0
60°	4720.0	4776.0	5099.9	5720.0	8826.0	12627.4	23042.0	34463.7	34788.6	34110.4	30896.5
62.5°	4442.0	4465.4	4687.4	5226.1	7702.7	10963.5	21191.7	34978.0	35470.9	34949.5	31873.1
65°	4109.0	4168.1	4354.4	4844.3	6843.3	9888.1	19227.3	34400.6	35297.8	35158.2	32407.7
67.5°	3745.5	3782.1	3970.5	4370.7	5950.2	9043.9	17230.3	33289.6	34427.1	34551.3	32066.6
70°	3348.3	3348.3	3515.3	3850.3	4909.4	7973.6	14179.4	31615.4	32763.1	32873.1	30343.5
72.5°	2834.0	2843.2	3032.6	3323.9	4073.4	6736.3	11031.7	28816.0	30392.4	30779.4	27521.7
75°	2233.2	2271.9	2486.8	2820.8	3322.8	5406.4	7977.7	22974.8	27194.8	27978.9	23961.6
77.5°	483.7	637.5	1505.1	1953.2	2573.3	4221.0	4915.5	13513.4	20950.3	22686.6	18898.4
80°	214.9	244.4	747.5	1253.6	1494.9	2719.0	2642.6	6082.6	8370.8	12771.0	12352.5
82.5°	105.9	144.6	317.7	787.2	895.1	957.2	1014.3	2890.1	3910.4	4725.1	5284.2
85°	29.5	48.9	164.0	314.7	374.7	232.2	376.8	1358.5	1986.8	2277.0	2194.5
87.5°	0.0	0.0	46.8	97.8	86.6	32.6	100.8	432.8	650.7	775.0	669.1
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°	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4
2.5°	7899.3	7824.9	7733.3	7597.8	7494.0	7406.4	7352.4	7252.6	7227.2	7221.1	7193.6
5°	7930.8	7793.4	7569.3	7333.1	7141.6	6957.3	6838.2	6740.4	6660.0	6677.3	6606.0
7.5°	8001.1	7805.6	7459.4	7118.2	6803.5	6565.2	6375.8	6198.6	6120.2	6120.2	6071.4
10°	8061.2	7807.6	7362.6	6914.5	6502.1	6164.0	5920.6	5756.7	5629.4	5589.7	5573.4
12.5°	8145.7	7817.8	7242.4	6699.7	6225.1	5767.9	5483.8	5282.1	5179.3	5141.6	5048.9
15°	8297.4	7887.1	7133.5	6459.3	5894.2	5397.2	5039.8	4841.2	4723.1	4681.3	4664.0
17.5°	8544.9	8025.6	7058.1	6195.6	5568.3	5031.6	4645.7	4407.4	4285.2	4187.4	4176.2
20°	8876.9	8247.5	7034.7	5986.8	5221.0	4669.1	4208.8	3921.6	3691.5	3551.0	3553.0
22.5°	9373.8	8572.4	7077.5	5798.4	4921.6	4301.5	3767.9	3332.0	2946.1	2777.0	2739.3
25°	10072.4	9063.2	7190.5	5644.7	4621.2	3922.7	3166.0	2523.5	2151.8	1979.7	1942.0
27.5°	10967.5	9754.7	7400.3	5514.3	4337.1	3392.1	2434.9	1810.6	1473.5	1320.8	1257.7
30°	11935.0	10619.3	7733.3	5407.4	3976.6	2658.9	1733.2	1245.4	933.8	835.0	835.0
32.5°	13327.0	11662.0	8159.0	5285.2	3504.1	1910.4	1154.8	804.5	591.7	526.5	526.5
35°	14813.8	12883.0	8695.6	5144.7	2833.0	1306.5	718.9	474.5	391.0	392.1	391.0
37.5°	16102.0	13960.4	9212.9	4930.8	2066.2	836.1	425.7	344.2	333.0	323.8	333.0
40°	17520.6	15088.8	9588.7	4581.5	1356.4	483.7	303.5	309.6	297.4	276.0	268.8
42.5°	18783.3	16109.1	9843.3	4025.5	854.4	301.4	265.8	278.0	276.0	246.4	228.1
45°	20124.5	17203.9	9958.4	3186.4	469.5	272.9	234.2	259.7	258.7	225.1	206.7
47.5°	21443.2	18216.1	9909.5	2169.1	316.7	249.5	215.9	231.2	238.3	205.7	186.4
50°	23152.0	19131.6	9635.5	1247.5	289.2	233.2	200.6	195.5	210.8	177.2	166.0
52.5°	24485.0	20055.2	9079.5	669.1	273.9	222.0	185.3	164.0	177.2	145.6	153.8
55°	25684.6	20842.4	8107.0	461.3	270.9	210.8	178.2	144.6	147.7	126.3	124.2
57.5°	26878.1	21589.9	6873.8	406.3	275.0	211.8	161.9	126.3	115.1	102.9	85.5
60°	27836.4	22359.7	5496.0	372.7	277.0	209.8	141.5	110.0	83.5	70.3	67.2
62.5°	28571.6	22779.3	4124.3	347.3	269.9	192.5	128.3	91.7	67.2	50.9	48.9
65°	28919.9	22731.4	2779.1	320.8	266.8	184.3	118.1	77.4	53.0	39.7	37.7
67.5°	28357.8	21604.1	1764.8	294.3	261.7	176.2	111.0	67.2	45.8	32.6	30.6
70°	26471.8	19717.1	1048.9	263.8	248.5	161.9	106.9	60.1	39.7	25.5	21.4
72.5°	23447.3	17055.2	661.9	221.0	225.1	136.5	79.4	50.9	33.6	15.3	13.2
75°	19685.6	13698.7	478.6	164.0	183.3	107.9	63.1	43.8	27.5	9.2	8.1
77.5°	15287.3	9224.1	366.6	107.9	122.2	76.4	44.8	33.6	20.4	5.1	4.1
80°	9322.9	5320.8	288.2	61.1	75.4	44.8	20.4	21.4	9.2	1.0	0.0
82.5°	4498.0	2434.9	167.0	32.6	25.5	23.4	5.1	0.0	1.0	0.0	0.0
85°	1573.3	733.2	31.6	19.3	8.1	7.1	0.0	0.0	0.0	0.0	0.0
87.5°	421.6	130.3	9.2	8.1	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)