

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: P285755

Luminaire Tested: **USSL-XL-C047-D-U-T2-BZ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-XL-C047-D-U-T2-BZ-7050  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26740 lumens  
Efficiency: N/A  
Efficacy: 151.9 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 176  
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: 28.75 FT

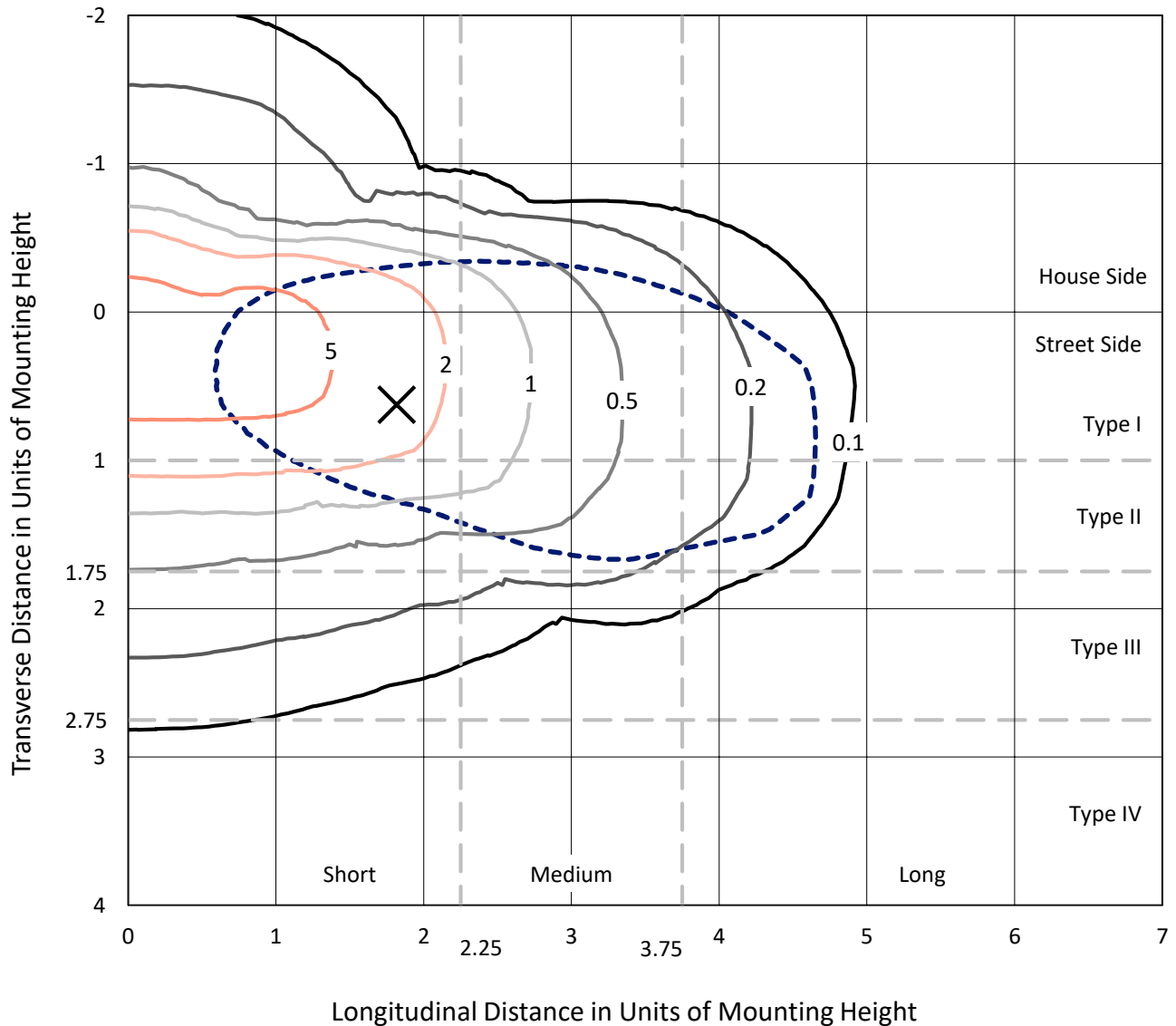


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

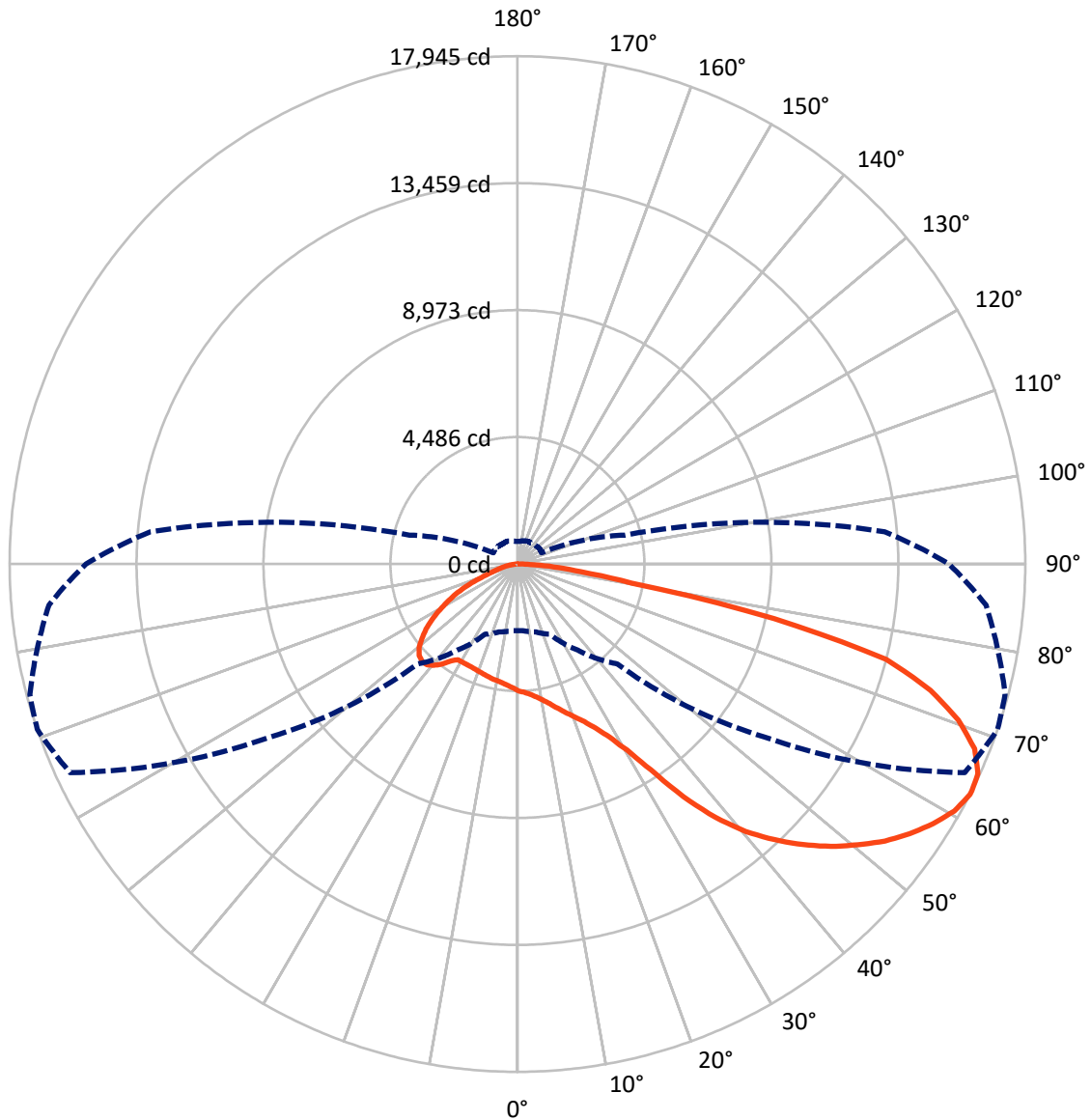


Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical



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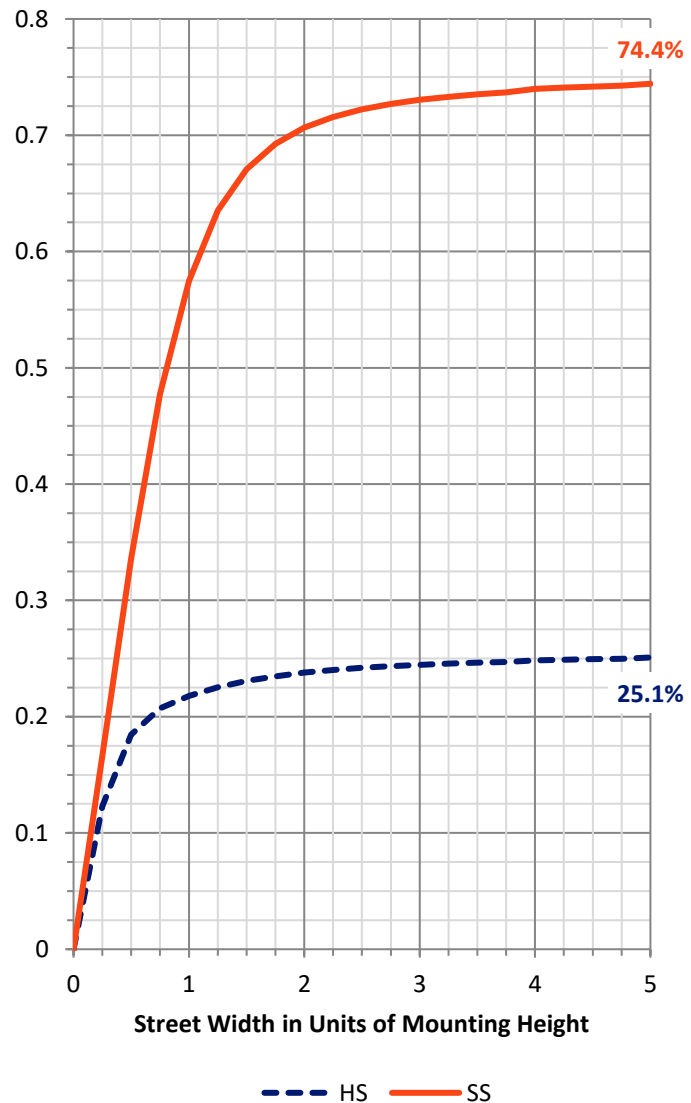
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6828.6	0.0	6828.6
	% Fixture	25.5	0.0	25.5
<b>Street Side</b>	Lumens	19911.4	0.0	19911.4
	% Fixture	74.5	0.0	74.5
<b>Total</b>	Lumens	26740.0	0.0	26740.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.9	1.6
10°-20°	1321.9	4.9
20°-30°	2240.9	8.4
30°-40°	3377.5	12.6
40°-50°	4639.9	17.4
50°-60°	5394.3	20.2
60°-70°	5322.7	19.9
70°-80°	3403.4	12.7
80°-90°	607.5	2.3
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°	26740.0	100.0
0°-180°	26740.0	100.0



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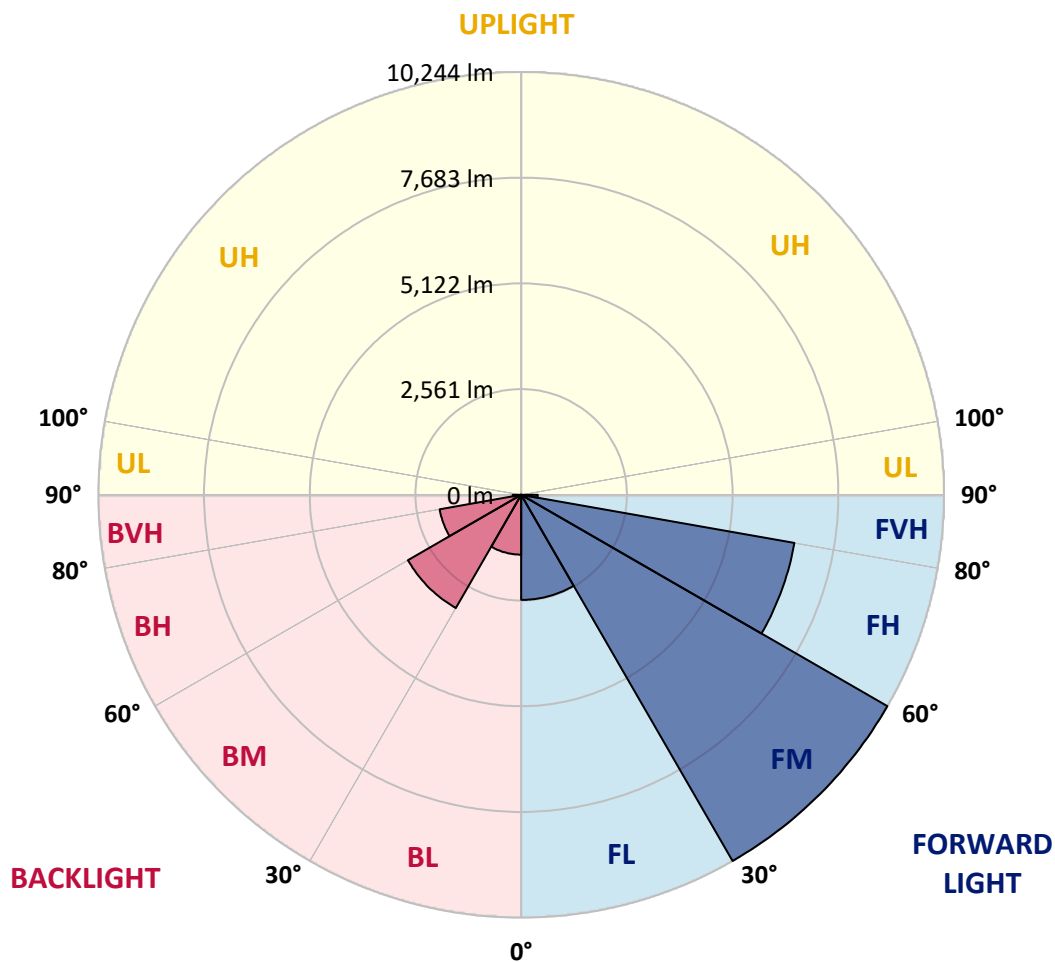
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2545.0	9.5			
FM	(30°-60°)	10243.6	38.3			
FH	(60°-80°)	6721.3	25.1			G3/7500
FVH	(80°-90°)	401.5	1.5			G3/500
BL	(0°-30°)	1449.6	5.4	B3/2500		
BM	(30°-60°)	3168.1	11.8	B3/5000		
BH	(60°-80°)	2004.9	7.5	B3/2500		G3/2500
BVH	(80°-90°)	206.1	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0
2.5°	4779.3	4770.1	4758.9	4739.6	4717.2	4690.7	4663.2	4601.1	4536.9	4516.6	4472.8
5°	5042.0	5024.6	5010.4	4992.1	4949.3	4895.3	4823.0	4721.2	4621.5	4589.9	4499.3
7.5°	5274.1	5254.8	5229.3	5204.9	5158.0	5088.8	4991.0	4861.7	4741.6	4686.6	4539.0
10°	5480.8	5462.5	5449.2	5421.7	5384.1	5300.6	5184.5	5022.6	4883.1	4806.8	4602.1
12.5°	5709.9	5694.6	5667.1	5635.5	5585.7	5505.2	5389.1	5213.0	5064.4	4971.7	4698.8
15°	5943.0	5932.8	5884.0	5865.6	5809.7	5717.0	5614.2	5432.9	5281.2	5166.2	4837.3
17.5°	6149.7	6142.6	6112.0	6090.7	6044.8	5941.0	5835.1	5669.1	5514.4	5367.8	4991.0
20°	6282.1	6292.3	6286.2	6282.1	6279.0	6193.5	6088.6	5917.6	5761.8	5616.2	5156.0
22.5°	6405.3	6409.3	6425.6	6463.3	6517.3	6479.6	6366.6	6208.8	6049.9	5875.8	5369.8
25°	6444.0	6447.0	6510.1	6624.2	6775.9	6792.2	6699.5	6593.6	6420.5	6249.5	5663.0
27.5°	6475.5	6483.7	6563.1	6762.7	7029.4	7106.8	7073.2	7038.6	6916.4	6737.2	6057.1
30°	6466.4	6468.4	6599.7	6856.3	7231.0	7439.7	7490.6	7657.6	7627.1	7504.9	6716.8
32.5°	6298.4	6283.1	6473.5	6858.4	7388.8	7773.7	8008.9	8484.4	8664.6	8697.2	8036.4
35°	5956.3	5956.3	6241.4	6778.9	7502.9	8103.6	8599.4	9490.3	10098.2	10114.5	9290.8
37.5°	5671.2	5689.5	6009.2	6630.3	7555.8	8438.6	9276.5	10720.3	11361.7	11306.7	10338.4
40°	5387.1	5409.5	5737.4	6427.7	7524.2	8727.7	9933.2	11893.2	12426.7	12300.5	11231.4
42.5°	5072.5	5089.8	5397.3	6139.5	7415.3	8938.5	10638.8	12894.0	13318.6	13164.9	12045.9
45°	4757.9	4787.4	5064.4	5752.6	7202.5	9064.7	11243.6	13802.2	14146.4	13969.2	12787.1
47.5°	4294.6	4408.7	4731.4	5370.8	6816.6	9055.6	11780.2	14617.8	14910.0	14721.7	13455.1
50°	3352.8	3420.0	4131.7	5024.6	6307.5	8873.3	12203.7	15345.8	15596.3	15429.3	14130.1
52.5°	3045.3	3063.7	3293.8	4600.1	5743.5	8512.9	12517.3	16018.8	16263.2	16071.7	14741.0
55°	2887.5	2897.7	3010.7	3761.1	5264.9	7849.0	12659.9	16640.9	16825.2	16609.3	15258.2
57.5°	2672.7	2704.2	2862.1	3206.2	4775.2	6910.3	12475.6	17129.6	17313.9	17079.7	15753.1
60°	2513.8	2533.2	2668.6	2935.4	4208.1	5812.7	11838.2	17482.9	17731.3	17515.5	16212.2
62.5°	2357.1	2368.3	2482.3	2738.9	3720.4	4996.1	10648.0	17442.2	17945.2	17837.2	16619.5
63°	2324.5	2334.7	2448.7	2703.2	3648.1	4829.2	10397.5	17391.3	17945.2	17869.8	16670.4
65°	2179.9	2192.1	2305.1	2537.3	3345.7	4409.7	9279.6	17074.6	17881.0	17916.7	16742.7
67.5°	1965.1	1985.4	2079.1	2281.7	2891.6	3898.6	7621.0	16743.7	17420.8	17497.2	16342.6
70°	1711.5	1715.6	1828.6	1998.7	2437.5	3316.2	5874.8	15739.8	16521.8	16555.4	15406.9
72.5°	1441.7	1452.9	1554.7	1698.3	2022.1	2746.0	4199.9	13877.6	15265.4	15454.7	13839.9
75°	1258.5	1267.6	1353.1	1453.9	1679.0	2164.6	2809.1	10119.5	13458.1	13668.9	11971.6
77.5°	1053.8	1059.9	1149.5	1218.7	1364.3	1633.1	1939.6	5339.3	9269.4	10391.4	9352.9
80°	750.4	751.4	841.0	895.0	988.6	1003.9	1233.0	2841.7	4078.8	5271.0	6181.3
82.5°	162.9	234.2	352.3	442.9	495.8	417.4	606.8	1556.8	2253.2	2690.0	3350.8
85°	70.3	96.7	186.3	204.7	136.4	150.7	246.4	829.8	1288.0	1533.4	1724.8
87.5°	13.2	17.3	47.9	64.1	39.7	41.7	49.9	265.7	451.0	529.4	590.5
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°	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0
2.5°	4446.3	4434.1	4393.4	4365.9	4348.6	4326.2	4297.7	4260.0	4248.8	4222.3	4243.7
5°	4449.4	4416.8	4331.3	4269.2	4213.2	4164.3	4107.3	4053.3	4033.0	3997.3	4011.6
7.5°	4463.6	4408.7	4276.3	4181.6	4098.1	4031.9	3952.5	3886.3	3862.9	3822.2	3829.3
10°	4501.3	4415.8	4233.5	4118.5	4003.4	3906.7	3814.0	3723.4	3682.7	3647.1	3664.4
12.5°	4567.5	4442.3	4214.2	4066.6	3913.8	3795.7	3660.3	3544.2	3487.2	3441.4	3456.7
15°	4667.3	4493.2	4191.8	3992.2	3807.9	3654.2	3488.2	3341.6	3277.5	3241.8	3259.1
17.5°	4769.1	4567.5	4178.5	3901.6	3680.7	3481.1	3321.3	3182.8	3065.7	3039.2	3049.4
20°	4889.2	4643.9	4188.7	3805.9	3531.0	3294.8	3105.4	3012.8	2861.0	2808.1	2811.2
22.5°	5048.1	4763.0	4197.9	3712.2	3352.8	3089.1	2868.2	2776.5	2630.9	2537.3	2541.3
25°	5276.1	4910.6	4219.3	3625.7	3177.7	2863.1	2607.5	2454.8	2364.2	2245.1	2246.1
27.5°	5588.7	5113.2	4262.0	3544.2	2991.4	2603.4	2290.9	2119.8	2040.4	1962.0	1951.8
30°	6122.2	5448.2	4325.2	3454.6	2770.4	2289.9	1956.9	1807.2	1740.0	1675.9	1668.8
32.5°	7248.3	6261.7	4412.7	3341.6	2532.2	1933.5	1661.6	1543.5	1448.8	1385.7	1394.9
35°	8403.9	7280.9	4783.3	3207.2	2263.4	1621.9	1439.7	1293.1	1171.9	1123.0	1126.1
37.5°	9393.6	8204.4	5340.3	3061.6	1966.1	1421.4	1216.7	1075.2	978.5	954.0	984.6
40°	10217.3	8962.9	5787.3	2907.9	1653.5	1252.3	991.7	914.3	852.2	845.1	872.6
42.5°	10996.2	9648.1	6163.0	2730.7	1362.3	1034.5	823.7	842.0	832.9	831.8	835.9
45°	11703.8	10283.5	6372.7	2467.0	1156.6	847.1	777.9	847.1	862.4	860.3	849.1
47.5°	12348.3	10863.8	6515.2	2085.2	979.5	794.2	803.3	850.2	878.7	883.8	871.5
50°	13017.2	11430.9	6537.6	1623.0	909.2	835.9	825.7	819.6	871.5	870.5	871.5
52.5°	13614.9	11917.6	6293.3	1261.5	945.9	879.7	844.1	808.4	837.9	839.0	818.6
55°	14064.9	12316.7	5874.8	1105.7	976.4	916.3	897.0	825.7	807.4	795.2	802.3
57.5°	14529.2	12673.1	5306.7	1035.5	985.6	924.5	943.8	829.8	802.3	746.3	742.2
60°	14976.2	12961.2	4633.7	988.6	974.4	920.4	914.3	861.4	808.4	724.9	696.4
62.5°	15248.0	13024.4	3945.4	942.8	953.0	914.3	881.7	884.8	848.1	802.3	796.2
63°	15279.6	13003.0	3814.0	931.6	947.9	913.3	881.7	886.8	848.1	820.6	821.7
65°	15239.9	12754.6	3298.9	883.8	929.6	897.0	868.5	843.0	779.9	797.2	817.6
67.5°	14793.9	11942.1	2536.2	806.4	888.9	870.5	828.8	765.7	708.6	697.4	709.7
70°	13589.5	10611.3	1797.1	687.3	815.6	836.9	818.6	723.9	666.9	656.7	681.2
72.5°	11917.6	9213.4	1234.0	549.8	683.2	778.9	773.8	697.4	646.5	617.0	629.2
75°	10032.0	7431.6	862.4	463.3	526.4	701.5	734.1	675.0	636.4	608.9	604.8
77.5°	7723.8	5613.1	678.1	396.1	434.8	568.1	675.0	670.0	717.8	847.1	818.6
80°	5261.9	3732.6	488.7	297.3	346.2	398.1	581.4	691.3	908.2	533.5	523.3
82.5°	3058.6	2193.1	305.4	197.5	206.7	270.8	364.5	730.0	607.8	240.3	303.4
85°	1477.4	955.0	152.7	136.4	94.7	101.8	169.0	680.1	430.7	106.9	21.4
87.5°	471.4	232.1	16.3	12.2	14.3	20.4	80.4	415.4	253.5	91.6	13.2
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)