

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: P1211428

Luminaire Tested: **ARCH4-270-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28037 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 269
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

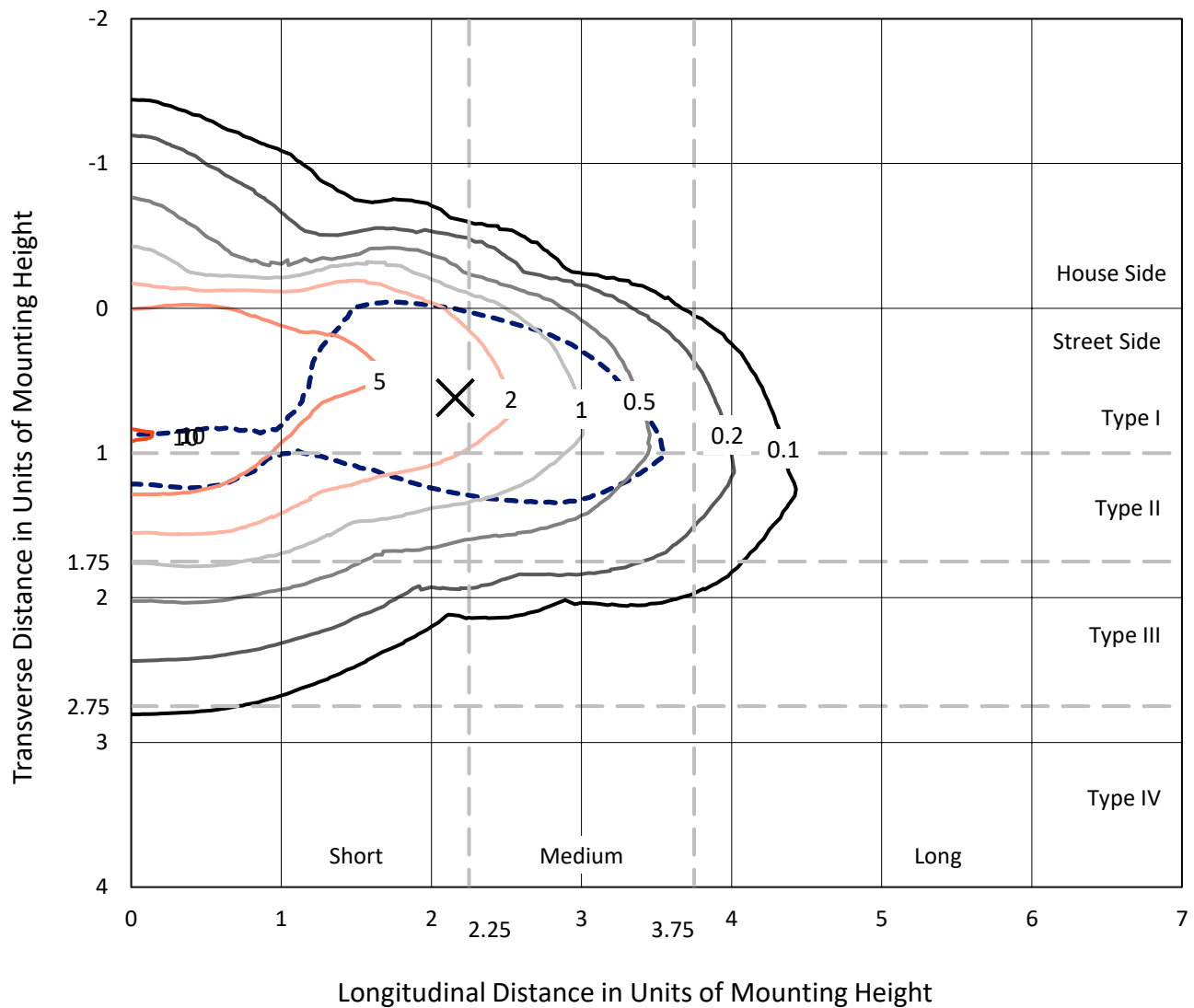


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Iso-Footcandle Lines of Horizontal Illumination

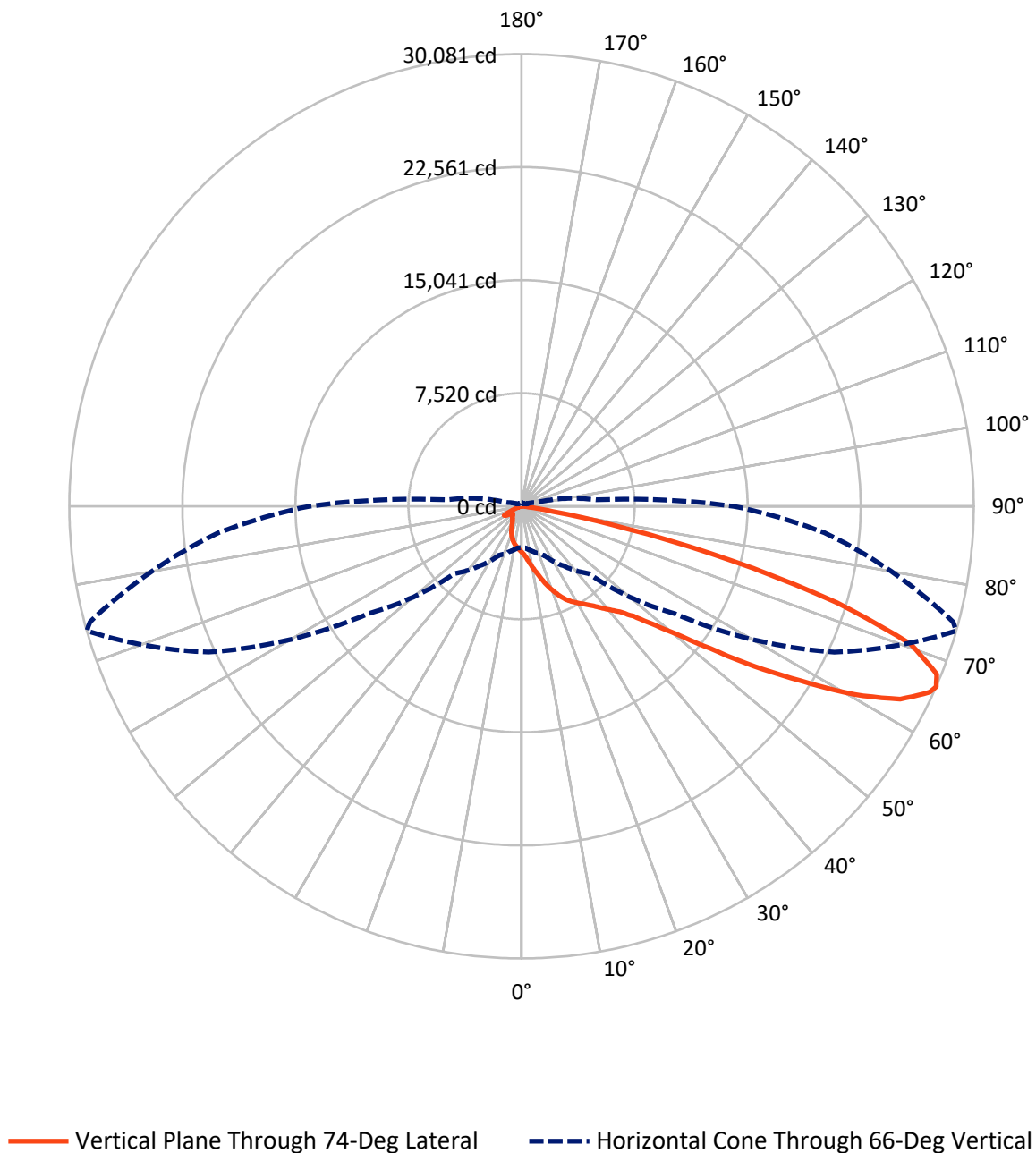
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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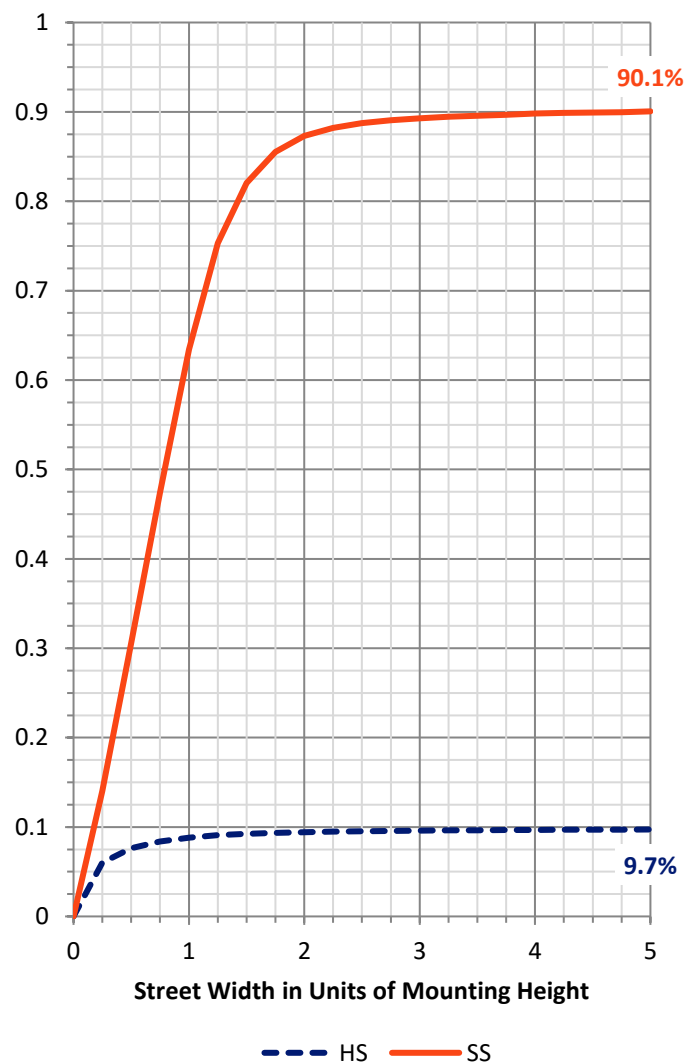
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2748.5	0.0	2748.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	25288.5	0.0	25288.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	28037.0	0.0	28037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.7	1.1
10°-20°	957.7	3.4
20°-30°	1827.6	6.5
30°-40°	3203.4	11.4
40°-50°	5493.0	19.6
50°-60°	7144.0	25.5
60°-70°	6467.1	23.1
70°-80°	2495.4	8.9
80°-90°	150.2	0.5
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°	28037.0	100.0
0°-180°	28037.0	100.0

Coefficient of Utilization



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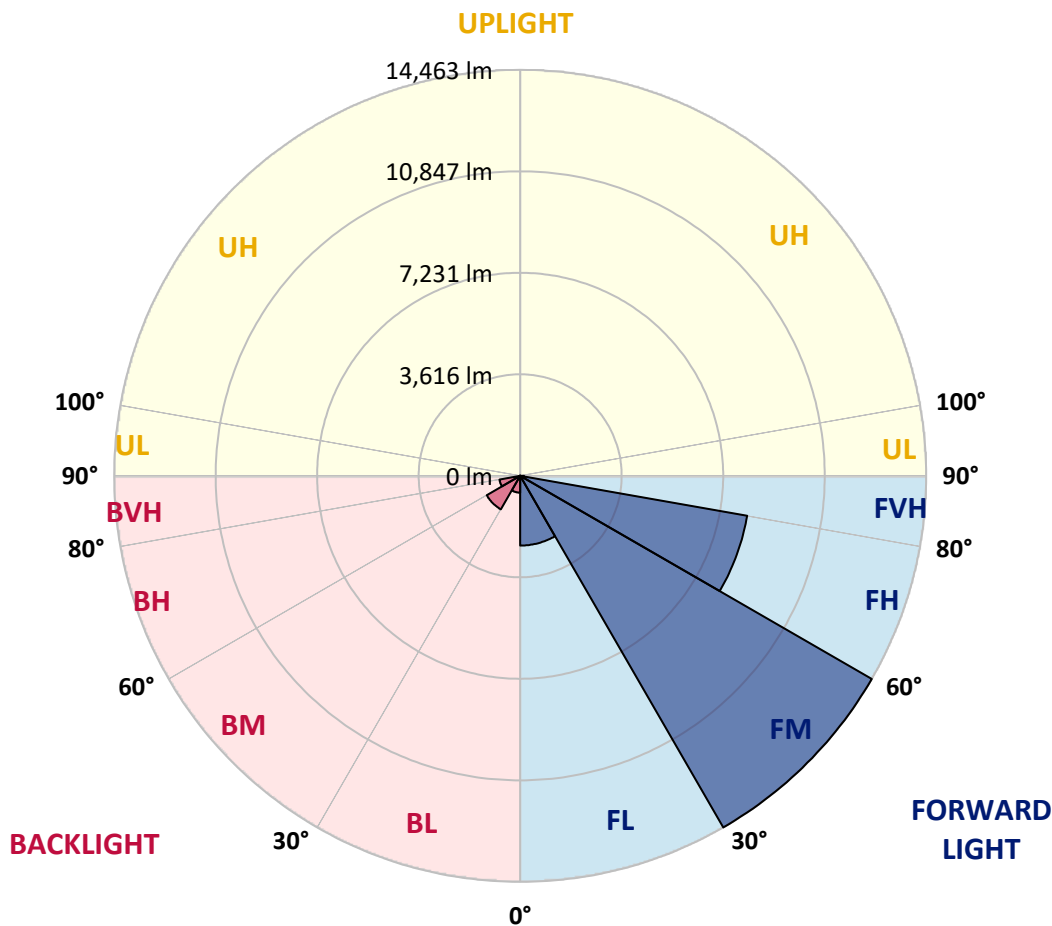
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2484.5	8.9			
FM	(30°-60°)	14462.9	51.6			
FH	(60°-80°)	8211.1	29.3			G4/12000
FVH	(80°-90°)	130.0	0.5			G2/225
BL	(0°-30°)	599.5	2.1	B2/1000		
BM	(30°-60°)	1377.5	4.9	B2/2500		
BH	(60°-80°)	751.4	2.7	B2/1000		G2/1000
BVH	(80°-90°)	20.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3060.5	3060.5	3060.5	3060.5	3060.5	3060.5	3060.5	3060.5	3060.5	3060.5	3060.5
2.5°	3674.6	3644.4	3589.0	3584.0	3538.7	3483.3	3387.7	3287.0	3216.5	3206.5	3120.9
5°	4399.4	4384.3	4329.0	4293.7	4208.2	4077.3	3855.8	3634.3	3448.1	3427.9	3236.7
7.5°	4590.7	4600.8	4610.9	4646.1	4615.9	4555.5	4389.4	4077.3	3785.3	3740.0	3407.8
10°	4620.9	4610.9	4610.9	4656.2	4741.7	4827.3	4807.2	4540.4	4162.9	4107.5	3644.4
12.5°	4948.1	4963.2	4928.0	4907.8	4892.7	4938.0	5089.1	4973.3	4560.5	4515.2	3931.3
15°	5370.9	5365.9	5315.6	5315.6	5270.3	5194.8	5290.4	5376.0	5038.7	4983.3	4258.5
17.5°	5678.0	5698.1	5693.1	5723.3	5708.2	5607.5	5557.2	5733.4	5532.0	5461.5	4631.0
20°	5924.6	5980.0	6000.2	6095.8	6141.1	6070.6	5939.7	6050.5	6005.2	5939.7	5008.5
22.5°	6186.4	6231.7	6266.9	6433.1	6558.9	6543.8	6377.7	6352.5	6463.3	6402.8	5381.0
25°	6448.2	6468.3	6574.0	6775.3	6976.7	7027.0	6855.9	6659.6	6876.0	6820.6	5713.2
27.5°	6735.1	6745.1	6871.0	7117.6	7399.5	7505.2	7369.3	7006.9	7193.1	7193.1	6015.3
30°	7258.6	7359.2	7409.6	7631.1	7877.7	8023.7	7862.6	7374.3	7475.0	7520.3	6332.4
32.5°	8386.1	8401.2	8386.1	8481.8	8532.1	8617.7	8431.4	7787.1	7761.9	7812.3	6644.5
35°	10107.6	10047.2	9886.2	9745.2	9453.3	9292.2	9050.6	8315.6	8114.3	8184.8	6951.5
37.5°	12196.6	12111.0	11743.6	11310.7	10686.5	10042.2	9740.2	8960.0	8562.3	8652.9	7283.7
40°	14190.0	14134.6	13696.7	13163.1	12095.9	10993.6	10354.3	9503.6	9060.6	9095.9	7621.0
42.5°	15830.9	15820.9	15453.4	14894.7	13525.5	12020.4	11079.1	10037.2	9584.1	9639.5	7973.4
45°	17074.3	16978.6	16706.8	16304.1	14909.8	13087.6	11955.0	10847.6	10424.8	10490.2	8501.9
47.5°	17074.3	17089.4	17265.5	17225.3	15876.2	14089.3	12911.4	11869.4	11668.1	11728.5	9372.7
50°	15685.0	15825.9	16611.2	17270.6	16379.6	14869.5	13943.3	13148.0	13354.4	13445.0	10892.9
52.5°	12936.6	13173.2	14537.3	16042.4	16007.1	15262.1	15010.5	14773.9	15700.1	15861.1	13137.9
55°	9830.8	9986.8	11763.7	13742.0	14386.3	14940.0	15941.7	16837.7	18805.8	18770.6	15418.2
57.5°	7344.1	7490.1	9020.4	11215.1	12065.7	13545.6	16419.9	19198.5	21886.5	22022.4	17557.5
60°	5401.1	5511.9	6815.6	8617.7	9845.9	11411.4	16228.6	21524.0	25435.2	25279.2	19445.1
62.5°	3996.7	4057.2	4998.4	6171.3	7802.2	9297.2	15025.6	23114.7	28269.2	27952.1	20497.2
65°	3090.7	3110.8	3599.1	4223.3	5673.0	7228.4	13233.6	23356.3	29834.7	29497.4	20477.0
66°	2753.4	2768.5	3125.9	3609.2	4827.3	6327.3	12448.3	22968.7	30081.3	29723.9	20225.3
67.5°	2310.5	2300.4	2511.8	2828.9	3624.3	4882.7	11054.0	21836.1	29789.4	29608.1	19420.0
70°	1711.5	1716.5	1822.2	1897.7	2119.2	2703.1	7983.4	18941.8	27453.7	27443.7	17210.2
72.5°	1268.5	1283.6	1364.1	1379.2	1323.9	1464.8	4600.8	15065.8	21962.0	21967.0	12866.1
75°	951.4	976.5	1001.7	1011.8	961.4	926.2	2078.9	10137.8	14446.7	14341.0	7283.7
77.5°	724.9	734.9	755.1	740.0	729.9	639.3	865.8	4943.1	7132.7	6498.5	2360.8
80°	528.5	528.5	548.7	528.5	523.5	458.1	473.2	1585.6	2094.0	1741.7	508.4
82.5°	332.2	327.2	342.3	337.3	327.2	292.0	276.9	443.0	483.2	432.9	246.7
85°	186.2	181.2	176.2	171.1	156.0	130.9	151.0	166.1	221.5	226.5	176.2
87.5°	65.4	65.4	60.4	55.4	45.3	45.3	55.4	55.4	80.5	80.5	90.6
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°	3060.5	3060.5	3060.5	3060.5	3060.5	3060.5	3060.5	3060.5	3060.5	3060.5	3060.5
2.5°	3080.6	3025.2	2944.7	2839.0	2763.5	2688.0	2607.4	2562.1	2496.7	2481.6	2501.7
5°	3136.0	3035.3	2834.0	2612.5	2421.2	2250.1	2089.0	1993.3	1897.7	1862.5	1877.6
7.5°	3251.8	3080.6	2738.3	2380.9	2063.8	1807.1	1615.8	1505.1	1419.5	1384.3	1394.3
10°	3422.9	3161.2	2647.7	2119.2	1711.5	1439.6	1278.6	1208.1	1157.7	1137.6	1142.6
12.5°	3629.3	3276.9	2531.9	1857.4	1409.4	1172.8	1097.3	1082.2	1072.2	1062.1	1067.1
15°	3860.8	3377.6	2396.0	1600.7	1172.8	1042.0	1016.8	1011.8	1006.7	1006.7	1006.7
17.5°	4102.5	3468.2	2245.0	1359.1	1021.8	961.4	946.3	946.3	946.3	951.4	951.4
20°	4329.0	3538.7	2068.8	1142.6	936.3	885.9	875.9	875.9	880.9	885.9	885.9
22.5°	4550.5	3568.9	1862.5	991.6	865.8	820.5	805.4	805.4	805.4	810.4	810.4
25°	4741.7	3568.9	1656.1	896.0	805.4	760.1	740.0	734.9	740.0	740.0	740.0
27.5°	4902.8	3553.8	1454.7	830.6	745.0	699.7	679.5	674.5	684.6	689.6	689.6
30°	5074.0	3533.6	1293.7	770.2	694.6	649.3	629.2	629.2	644.3	664.4	664.4
32.5°	5240.1	3548.7	1167.8	719.8	644.3	609.1	588.9	594.0	624.2	654.4	654.4
35°	5416.2	3579.0	1092.3	684.6	609.1	573.8	558.7	573.8	604.0	634.2	634.2
37.5°	5592.4	3614.2	1047.0	654.4	578.9	543.6	533.6	553.7	588.9	619.1	624.2
40°	5778.7	3644.4	996.7	624.2	558.7	518.5	513.4	533.6	578.9	609.1	614.1
42.5°	6010.2	3704.8	936.3	599.0	538.6	488.3	493.3	508.4	553.7	599.0	604.0
45°	6463.3	3896.1	875.9	573.8	513.4	473.2	463.1	473.2	523.5	573.8	583.9
47.5°	7313.9	4329.0	810.4	548.7	488.3	463.1	422.8	432.9	478.2	533.6	538.6
50°	8944.9	5250.1	775.2	523.5	468.1	427.9	382.6	382.6	417.8	468.1	468.1
52.5°	11486.9	6901.2	795.3	503.4	443.0	392.6	347.3	342.3	362.4	397.7	397.7
55°	14230.2	8713.3	870.8	483.2	412.8	372.5	322.2	297.0	312.1	332.2	332.2
57.5°	16404.8	9624.4	1077.2	473.2	377.5	357.4	292.0	256.7	271.8	292.0	292.0
60°	17361.2	9090.8	1308.8	483.2	352.4	332.2	261.8	226.5	251.7	271.8	276.9
62.5°	16586.0	7485.1	1404.4	458.1	317.1	297.0	256.7	211.4	241.6	256.7	261.8
65°	14909.8	5688.1	1097.3	397.7	292.0	256.7	231.5	201.3	226.5	241.6	241.6
66°	14114.5	4958.2	936.3	367.5	281.9	241.6	221.5	201.3	221.5	231.5	236.6
67.5°	12881.2	3911.2	694.6	322.2	261.8	221.5	206.4	191.3	211.4	221.5	221.5
70°	10072.4	2330.6	417.8	251.7	226.5	196.3	186.2	176.2	191.3	196.3	196.3
72.5°	6307.2	1107.4	266.8	186.2	191.3	186.2	156.0	166.1	171.1	176.2	176.2
75°	3055.4	437.9	181.2	135.9	156.0	176.2	125.8	146.0	151.0	161.1	156.0
77.5°	850.7	211.4	115.8	100.7	135.9	135.9	95.6	115.8	135.9	171.1	156.0
80°	246.7	135.9	75.5	75.5	95.6	95.6	65.4	80.5	90.6	100.7	105.7
82.5°	171.1	90.6	50.3	55.4	55.4	60.4	40.3	40.3	50.3	50.3	55.4
85°	135.9	40.3	30.2	35.2	25.2	30.2	20.1	20.1	25.2	20.1	20.1
87.5°	55.4	20.1	20.1	20.1	15.1	15.1	10.1	5.0	5.0	5.0	5.0
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)