

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: P1211291

Luminaire Tested: **ARCH4-230-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32349 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 231.2
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



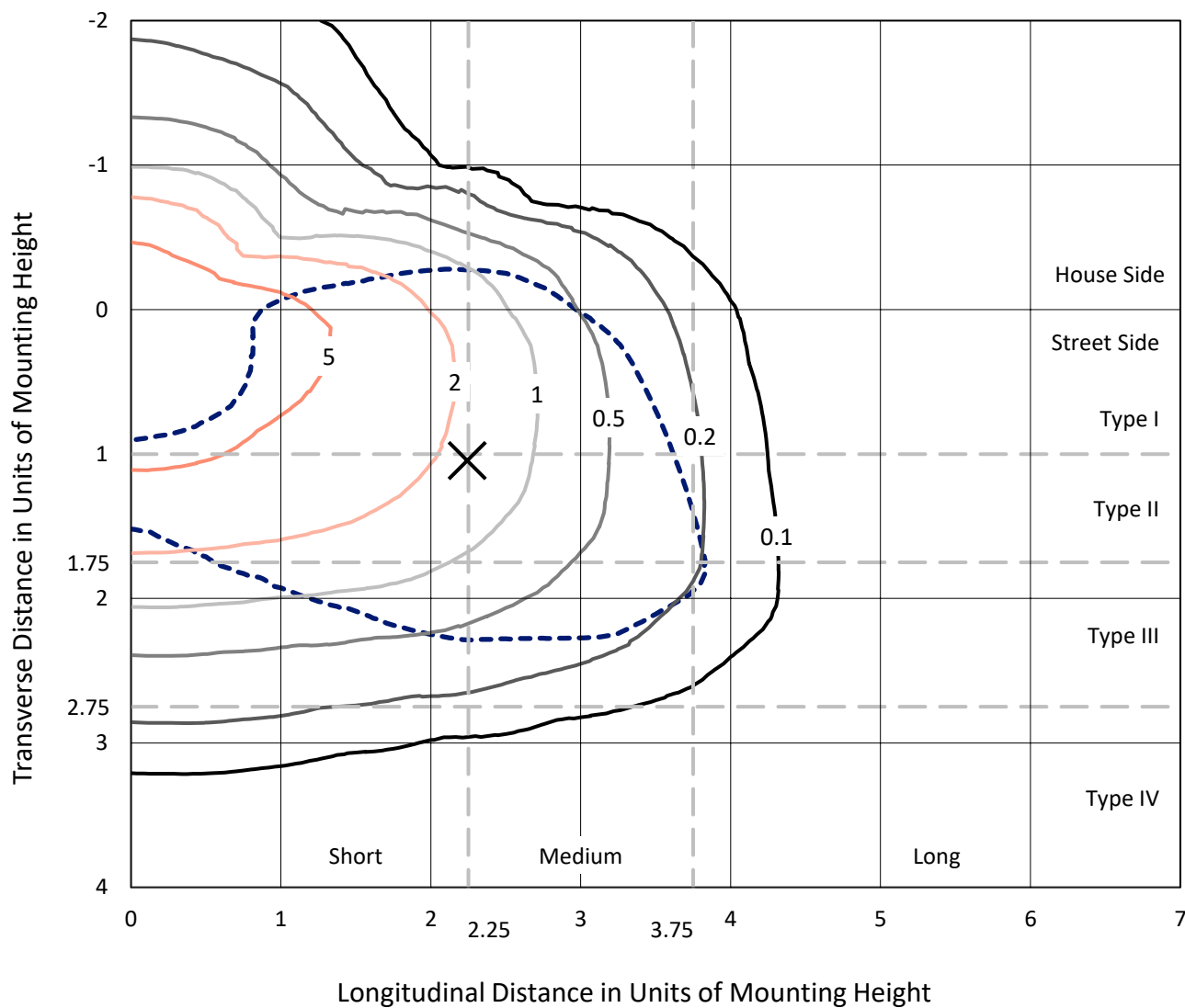
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

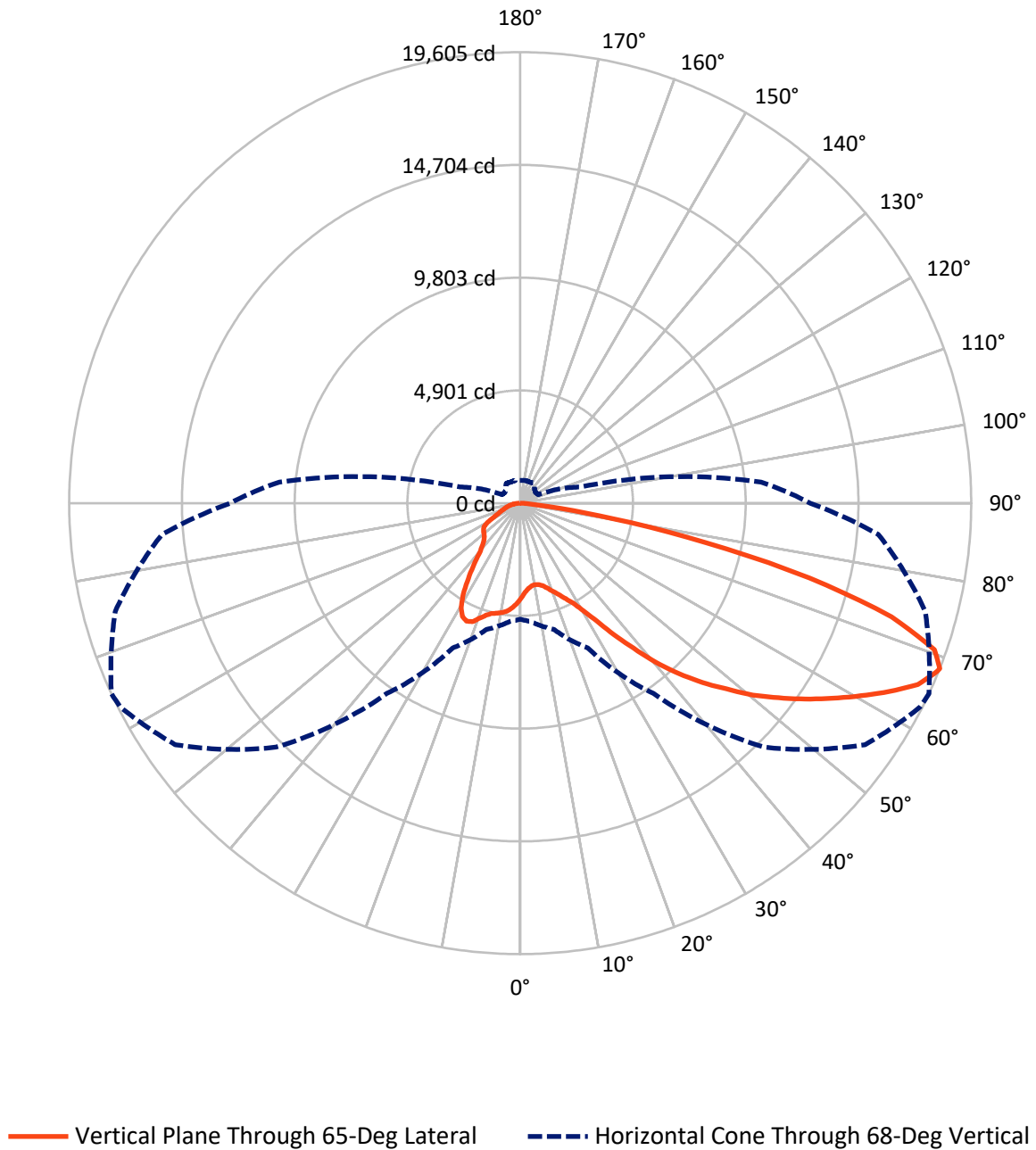
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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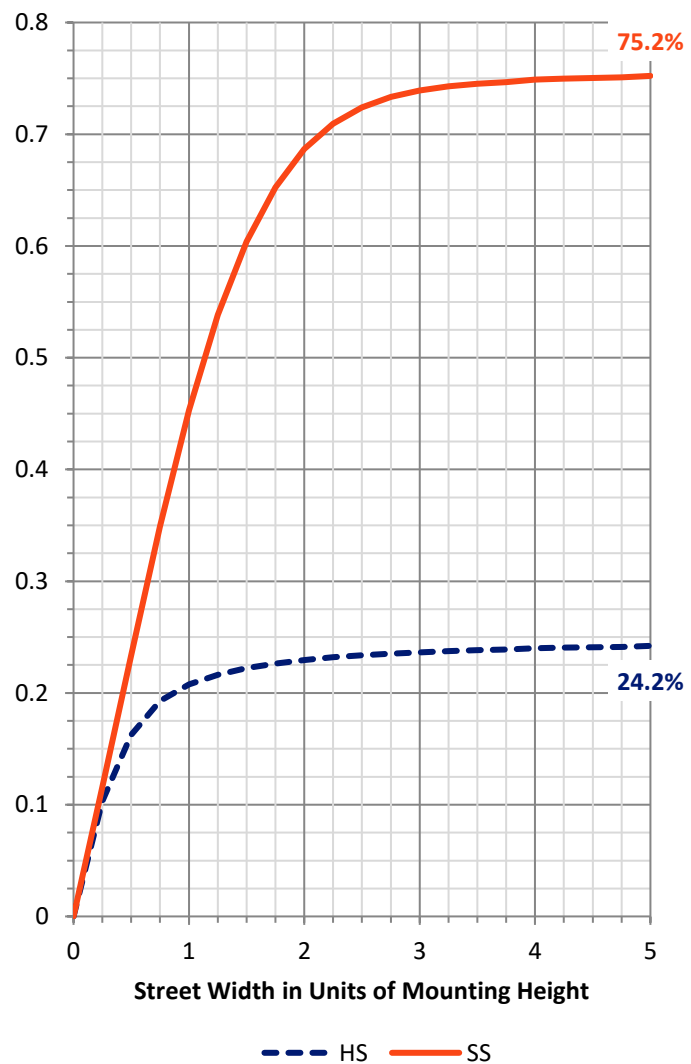
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7931.0	0.0	7931.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	24418.0	0.0	24418.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	32349.0	0.0	32349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.1	1.2
10°-20°	1286.3	4.0
20°-30°	2328.2	7.2
30°-40°	3662.4	11.3
40°-50°	5454.8	16.9
50°-60°	7155.6	22.1
60°-70°	7825.1	24.2
70°-80°	3872.1	12.0
80°-90°	369.4	1.1
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°	32349.0	100.0
0°-180°	32349.0	100.0

Coefficient of Utilization



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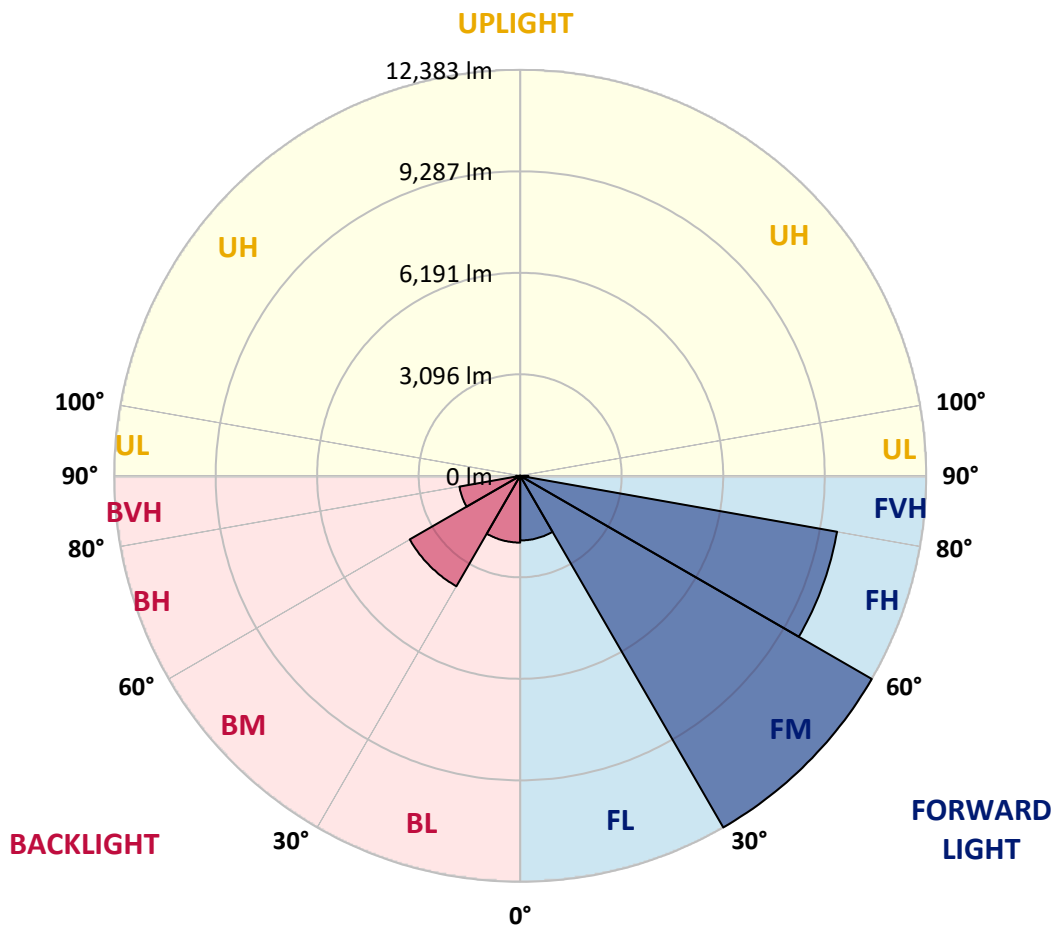
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1972.0	6.1			
FM	(30°-60°)	12382.8	38.3			
FH	(60°-80°)	9814.8	30.3			G4/12000
FVH	(80°-90°)	248.4	0.8			G3/500
BL	(0°-30°)	2037.5	6.3	B3/2500		
BM	(30°-60°)	3890.1	12.0	B3/5000		
BH	(60°-80°)	1882.4	5.8	B3/2500		G3/2500
BVH	(80°-90°)	120.9	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4133.8	4133.8	4133.8	4133.8	4133.8	4133.8	4133.8	4133.8	4133.8	4133.8	4133.8
2.5°	3608.2	3599.9	3620.7	3641.6	3687.5	3741.7	3816.8	3879.4	3887.7	4004.5	4096.3
5°	3395.5	3383.0	3403.8	3428.9	3449.7	3516.4	3595.7	3687.5	3725.0	3896.0	4092.1
7.5°	3416.3	3412.2	3420.5	3412.2	3412.2	3441.4	3495.6	3587.4	3629.1	3833.5	4113.0
10°	3537.3	3545.6	3549.8	3524.8	3499.8	3487.2	3503.9	3566.5	3595.7	3837.6	4204.7
12.5°	3737.5	3750.0	3754.2	3708.3	3675.0	3620.7	3591.5	3616.6	3637.4	3879.4	4334.0
15°	4008.7	4017.0	3987.8	3958.6	3875.2	3808.4	3737.5	3716.7	3725.0	3967.0	4480.0
17.5°	4325.7	4313.2	4313.2	4242.3	4133.8	4029.5	3912.7	3896.0	3896.0	4108.8	4688.6
20°	4671.9	4684.4	4646.9	4550.9	4442.5	4279.8	4163.0	4087.9	4096.3	4271.5	4943.1
22.5°	5172.5	5193.3	5093.2	4955.6	4788.7	4601.0	4434.1	4313.2	4317.3	4484.2	5205.8
25°	5710.6	5718.9	5656.4	5472.8	5247.6	4980.6	4759.5	4605.2	4601.0	4722.0	5543.7
27.5°	6261.2	6298.7	6173.6	5998.4	5789.8	5456.1	5164.1	4955.6	4922.2	5084.9	5965.0
30°	6828.5	6874.4	6753.4	6582.4	6323.8	6040.1	5693.9	5452.0	5431.1	5648.0	6528.2
32.5°	7400.0	7412.5	7316.5	7174.7	6941.1	6674.2	6394.7	6127.7	6106.9	6461.4	7258.2
35°	7867.2	7904.7	7838.0	7804.6	7633.6	7387.5	7116.3	6962.0	7016.2	7470.9	8205.0
37.5°	8430.3	8467.8	8392.8	8384.4	8330.2	8117.4	7929.7	7942.3	7996.5	8613.8	9202.0
40°	9243.7	9285.4	9093.5	9010.1	9010.1	8801.6	8739.0	9035.1	9106.1	9740.1	10240.7
42.5°	9932.0	9998.7	9886.1	9831.9	9669.2	9523.2	9598.3	10015.4	10136.4	10816.3	11145.8
45°	10265.7	10315.8	10449.2	10607.7	10449.2	10194.8	10478.4	10949.8	11120.8	11809.1	12051.0
47.5°	10445.1	10490.9	10645.3	11070.8	11179.2	10966.5	11366.9	11955.1	12071.9	12793.5	12914.5
50°	10470.1	10616.1	10816.3	11241.8	11738.2	11767.4	12259.6	12977.1	13114.7	13761.3	13673.7
52.5°	10265.7	10324.1	10737.1	11454.5	12005.1	12505.7	13231.5	13957.3	14057.5	14670.6	14345.3
55°	9932.0	10015.4	10428.4	11404.5	12263.8	13206.5	14220.1	14920.9	15033.5	15555.0	14966.8
57.5°	9631.6	9673.4	10115.5	11258.5	12522.4	13907.3	15100.3	15926.2	16001.3	16330.8	15425.7
60°	9297.9	9343.8	9786.0	10945.6	12714.3	14437.0	16018.0	16939.9	17006.6	17148.4	15959.6
62.5°	8434.5	8555.4	9110.2	10428.4	12664.2	15041.9	16998.3	17941.0	18024.4	17870.1	16380.9
65°	6849.4	7020.4	7700.3	9256.2	12197.0	15434.0	17799.2	18862.8	19004.7	18412.3	16493.5
67.5°	5318.5	5439.4	5985.9	7345.7	10557.7	15237.9	18316.4	19496.9	19538.6	18324.7	15867.8
68°	5043.2	5164.1	5685.6	6945.3	10103.0	15004.3	18303.9	19513.6	19605.3	18228.8	15625.9
70°	3858.5	3996.2	4492.5	5502.0	8142.5	13519.3	17540.5	19113.1	19100.6	17069.2	14124.2
72.5°	2411.0	2490.3	2832.3	3470.6	5385.2	10286.6	14887.6	16856.4	16889.8	13915.6	10833.0
75°	1530.9	1530.9	1514.2	1681.1	2761.4	5860.7	11066.6	12977.1	13002.1	9744.3	6828.5
77.5°	1330.7	1293.1	1113.8	942.7	1101.2	2277.6	6549.0	8380.2	8242.6	5247.6	3241.1
80°	1122.1	1059.5	913.5	759.2	709.1	713.3	2515.3	4254.8	4071.2	1889.6	1076.2
82.5°	809.2	755.0	688.3	596.5	546.4	425.5	525.6	1230.5	1201.3	546.4	350.4
85°	438.0	396.3	387.9	392.1	329.5	262.8	221.1	271.1	271.1	237.8	200.2
87.5°	154.3	112.6	133.5	150.2	129.3	108.5	87.6	104.3	108.5	104.3	95.9
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°	4133.8	4133.8	4133.8	4133.8	4133.8	4133.8	4133.8	4133.8	4133.8	4133.8	4133.8
2.5°	4150.5	4192.2	4292.3	4379.9	4442.5	4496.7	4525.9	4538.4	4567.6	4571.8	4563.5
5°	4183.9	4292.3	4442.5	4571.8	4642.7	4671.9	4680.3	4684.4	4671.9	4680.3	4671.9
7.5°	4271.5	4409.1	4621.9	4734.5	4747.0	4701.1	4705.3	4688.6	4705.3	4722.0	4722.0
10°	4404.9	4580.1	4780.4	4822.1	4767.9	4742.8	4792.9	4893.0	4926.4	4972.3	4972.3
12.5°	4580.1	4788.7	4930.5	4893.0	4842.9	4926.4	5072.4	5172.5	5205.8	5222.5	5210.0
15°	4780.4	5005.6	5076.5	4951.4	5043.2	5222.5	5272.6	5214.2	5130.8	5093.2	5114.1
17.5°	5034.8	5222.5	5180.8	5097.4	5306.0	5331.0	5168.3	4980.6	4847.1	4797.1	4830.4
20°	5301.8	5464.5	5272.6	5310.1	5439.4	5172.5	4863.8	4621.9	4505.1	4484.2	4517.6
22.5°	5585.4	5689.7	5364.4	5556.2	5364.4	4822.1	4450.8	4325.7	4296.5	4329.9	4359.1
25°	5906.6	5894.1	5522.9	5631.3	5084.9	4392.4	4171.4	4163.0	4163.0	4183.9	4225.6
27.5°	6269.5	6073.5	5681.4	5531.2	4601.0	4037.9	3996.2	4000.3	3987.8	3992.0	4012.8
30°	6690.8	6315.4	5856.6	5201.7	4058.7	3770.9	3754.2	3741.7	3712.5	3704.2	3712.5
32.5°	7220.6	6569.9	6035.9	4659.4	3583.2	3495.6	3487.2	3420.5	3349.6	3341.3	3370.5
35°	7892.2	7032.9	6127.7	3979.5	3191.1	3186.9	3157.7	3053.4	2961.7	2961.7	2940.8
37.5°	8659.7	7629.4	6165.3	3316.2	2865.7	2886.6	2803.1	2669.7	2598.8	2557.0	2569.6
40°	9443.9	8309.3	6161.1	2736.4	2582.1	2586.2	2523.7	2361.0	2185.8	2081.5	2106.5
42.5°	10199.0	8926.7	6052.6	2427.7	2352.6	2340.1	2290.1	2069.0	1923.0	1839.6	1843.7
45°	10803.8	9564.9	5885.8	2244.2	2144.1	2164.9	2052.3	1918.8	1785.3	1710.3	1706.1
47.5°	11408.6	10048.8	5618.8	2131.6	1989.7	1952.2	1906.3	1814.5	1714.4	1631.0	1635.2
50°	11959.3	10461.7	5368.5	2056.5	1847.9	1752.0	1760.3	1706.1	1618.5	1543.4	1539.2
52.5°	12347.2	10732.9	5230.9	2014.8	1676.9	1572.6	1601.8	1572.6	1489.2	1434.9	1430.8
55°	12735.1	10941.5	5276.8	1960.5	1489.2	1405.7	1455.8	1447.5	1401.6	1384.9	1389.1
57.5°	13048.0	11100.0	5439.4	1860.4	1309.8	1259.7	1343.2	1318.1	1284.8	1288.9	1288.9
60°	13352.5	11304.4	5631.3	1631.0	1155.5	1159.6	1238.9	1193.0	1172.1	1209.7	1213.9
62.5°	13669.5	11525.4	5472.8	1297.3	1022.0	1051.2	1143.0	1105.4	1113.8	1168.0	1184.7
65°	13632.0	11504.6	4459.2	1063.7	905.2	963.6	1101.2	1088.7	1092.9	1113.8	1122.1
67.5°	12864.4	10770.4	3065.9	905.2	821.8	892.7	1067.9	1017.8	1022.0	1009.5	1013.6
68°	12605.8	10511.8	2703.0	880.2	805.1	876.0	1051.2	1005.3	1009.5	997.0	992.8
70°	11195.9	9001.8	1710.3	775.9	746.7	830.1	967.8	951.1	946.9	938.6	938.6
72.5°	8534.6	6645.0	901.0	671.6	679.9	759.2	863.5	896.8	876.0	880.2	905.2
75°	5652.2	3996.2	625.7	575.6	596.5	650.7	767.5	834.3	813.4	825.9	813.4
77.5°	2990.9	2152.4	500.6	488.0	488.0	525.6	634.0	738.3	738.3	730.0	717.5
80°	980.3	759.2	400.4	383.8	392.1	413.0	508.9	604.8	617.4	600.7	592.3
82.5°	329.5	350.4	300.3	279.5	287.8	304.5	383.8	463.0	467.2	433.8	425.5
85°	204.4	233.6	187.7	183.5	183.5	187.7	233.6	254.5	233.6	208.6	216.9
87.5°	95.9	116.8	87.6	75.1	62.6	54.2	41.7	16.7	16.7	8.3	8.3
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)