

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: P1211450

Luminaire Tested: **ARCH4-280-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-280-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26490 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 279.7
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



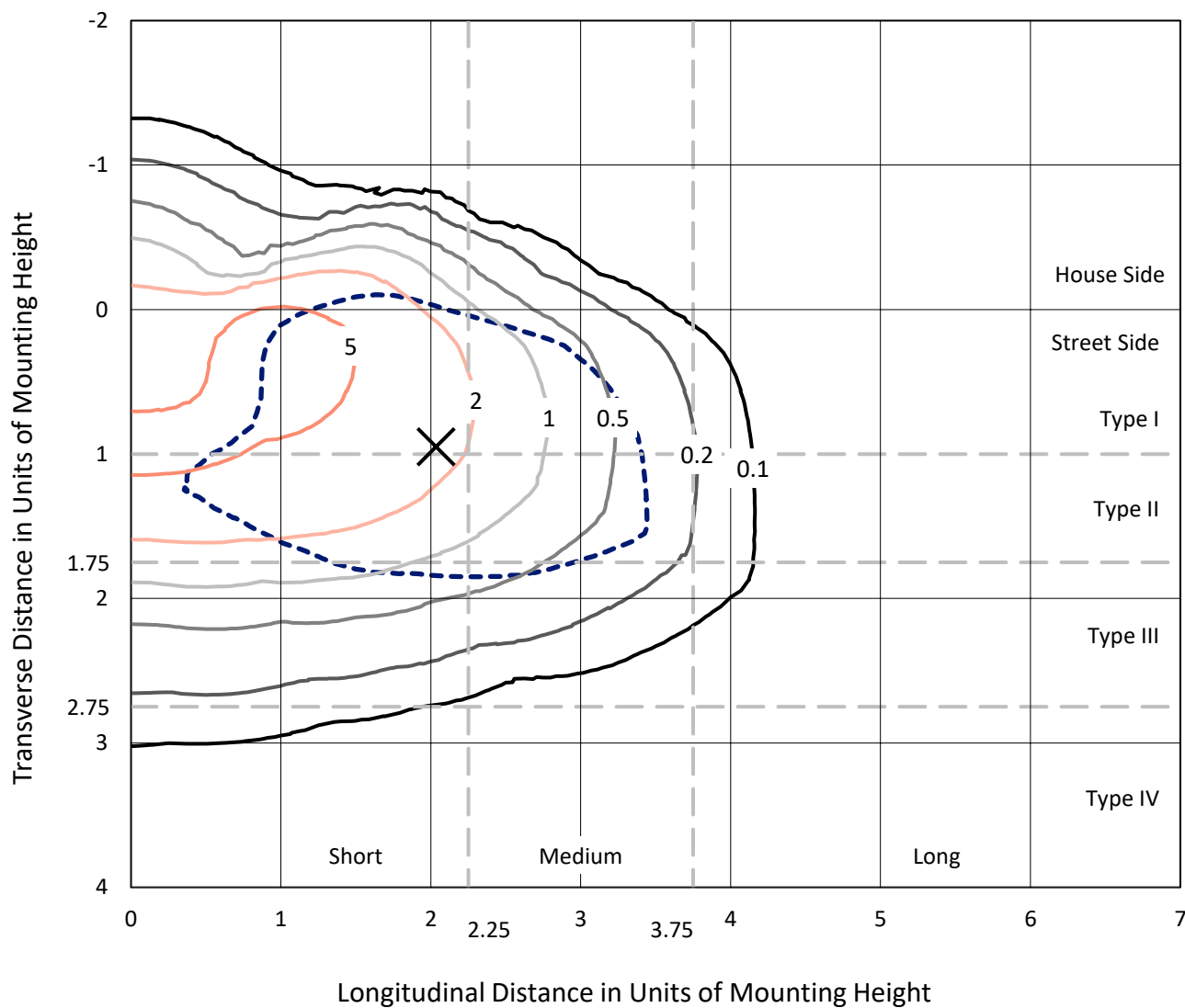
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Iso-Footcandle Lines of Horizontal Illumination

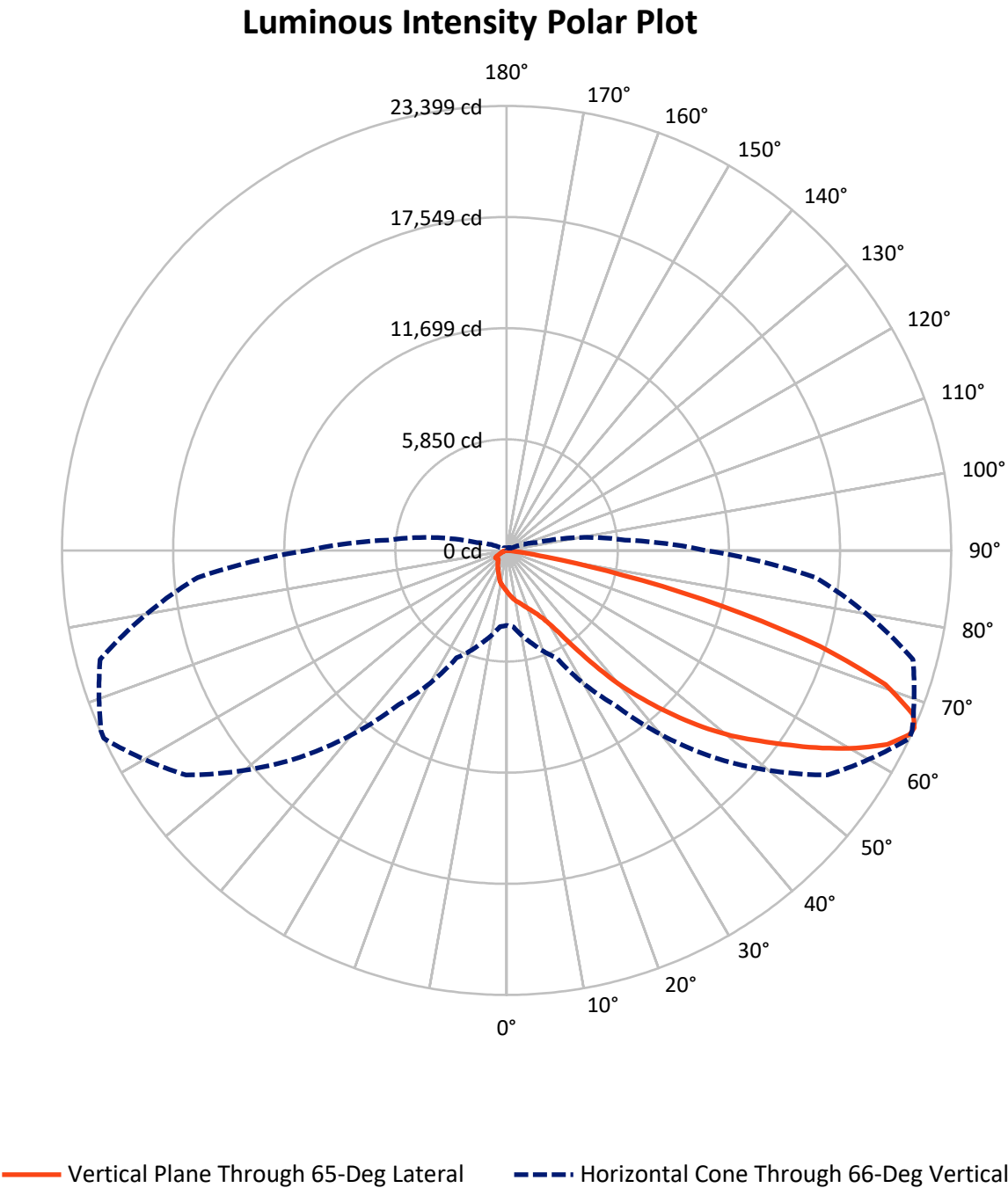
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type III - Short - N/A

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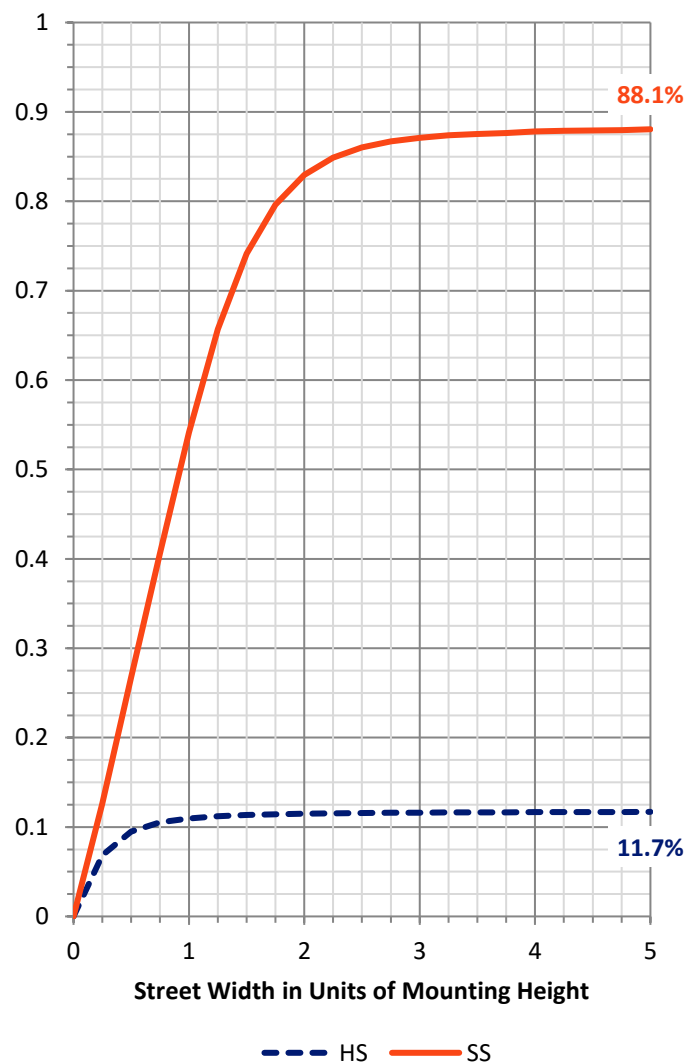
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3126.4	0.0	3126.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	23363.6	0.0	23363.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	26490.0	0.0	26490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	0.8
10°-20°	605.7	2.3
20°-30°	1108.6	4.2
30°-40°	2252.6	8.5
40°-50°	4756.9	18.0
50°-60°	7312.9	27.6
60°-70°	7360.9	27.8
70°-80°	2750.4	10.4
80°-90°	137.4	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°	26490.0	100.0
0°-180°	26490.0	100.0

Coefficient of Utilization



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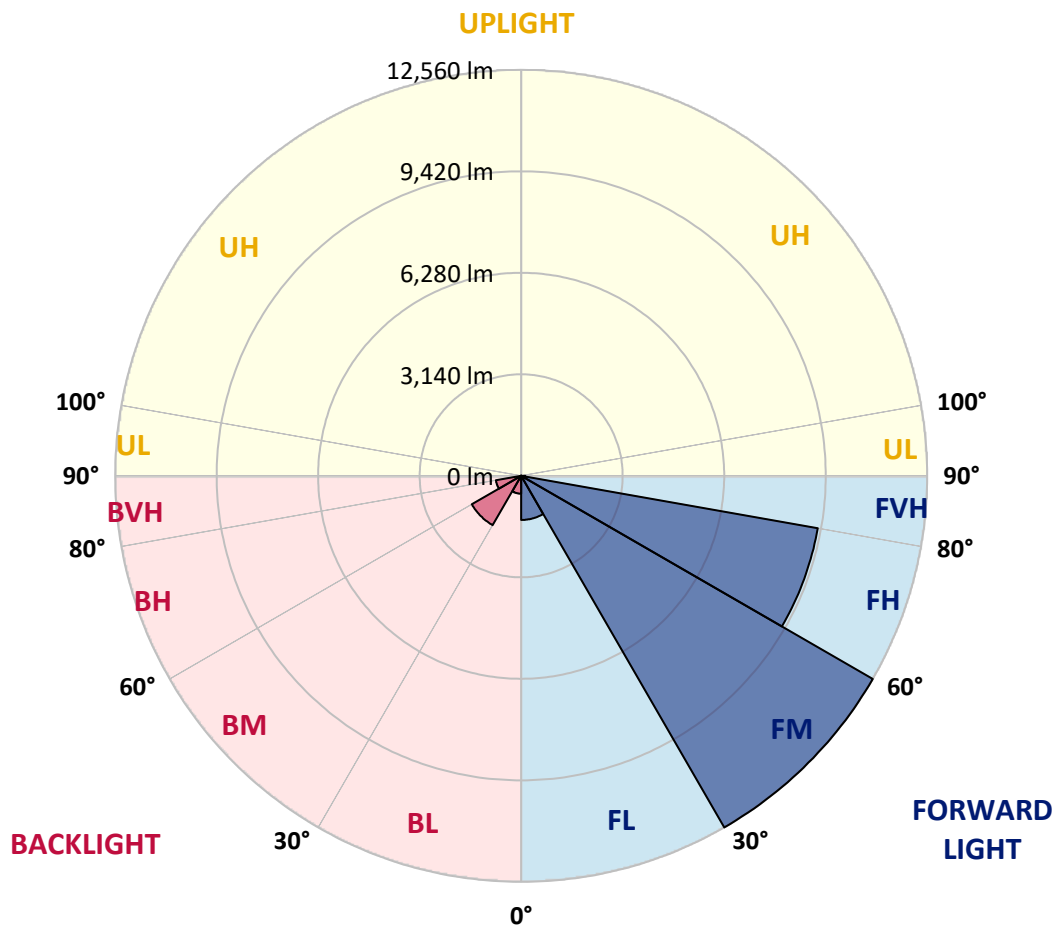
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1365.5	5.2			
FM	(30°-60°)	12559.7	47.4			
FH	(60°-80°)	9317.2	35.2			G4/12000
FVH	(80°-90°)	121.2	0.5			G2/225
BL	(0°-30°)	553.3	2.1	B2/1000		
BM	(30°-60°)	1762.7	6.7	B2/2500		
BH	(60°-80°)	794.2	3.0	B2/1000		G2/1000
BVH	(80°-90°)	16.2	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2158.2	2158.2	2158.2	2158.2	2158.2	2158.2	2158.2	2158.2	2158.2	2158.2	2158.2
2.5°	2461.0	2465.8	2456.2	2437.0	2417.7	2393.7	2355.3	2292.8	2283.2	2239.9	2191.8
5°	2629.2	2638.9	2624.4	2619.6	2610.0	2576.4	2523.5	2432.2	2422.6	2336.0	2225.5
7.5°	2686.9	2701.3	2691.7	2691.7	2691.7	2677.3	2653.3	2571.6	2557.1	2446.6	2278.4
10°	2730.2	2739.8	2735.0	2754.2	2768.6	2759.0	2744.6	2696.5	2682.1	2571.6	2350.5
12.5°	2797.5	2802.3	2807.1	2816.7	2840.7	2850.3	2845.5	2802.3	2792.7	2715.8	2441.8
15°	2860.0	2860.0	2864.8	2908.0	2941.7	2960.9	2965.7	2932.1	2922.4	2860.0	2557.1
17.5°	2917.6	2922.4	2936.9	2984.9	3042.6	3081.1	3105.1	3090.7	3076.3	3028.2	2691.7
20°	3004.2	3013.8	3028.2	3095.5	3153.2	3215.7	3263.7	3258.9	3254.1	3220.5	2850.3
22.5°	3153.2	3162.8	3186.8	3249.3	3307.0	3383.9	3465.6	3460.8	3446.4	3422.3	3037.8
25°	3379.1	3379.1	3393.5	3446.4	3518.5	3609.8	3686.7	3701.1	3686.7	3672.3	3273.3
27.5°	3662.7	3667.5	3667.5	3725.2	3792.5	3907.8	4003.9	4018.4	4018.4	4003.9	3590.6
30°	4056.8	4042.4	4032.8	4080.9	4153.0	4321.2	4489.4	4518.3	4503.8	4527.9	4037.6
32.5°	4734.6	4710.5	4628.8	4638.4	4681.7	4912.4	5196.0	5296.9	5292.1	5335.4	4758.6
35°	5671.9	5623.8	5503.6	5402.7	5397.9	5647.8	6080.4	6460.1	6455.3	6604.3	5854.5
37.5°	6729.3	6791.8	6565.9	6392.9	6340.0	6537.1	7094.6	7916.6	7959.8	8219.4	7291.7
40°	8142.5	8180.9	7892.5	7647.4	7397.4	7469.5	8205.0	9483.5	9560.4	9848.8	8728.9
42.5°	9373.0	9411.4	9243.2	8945.2	8628.0	8493.4	9324.9	10906.3	10968.8	11367.7	10209.3
45°	10209.3	10238.2	10295.9	10324.7	9964.2	9685.4	10694.8	12367.5	12444.4	12905.9	11656.1
47.5°	10863.0	10887.1	11002.4	11290.8	11218.7	10997.6	12088.7	13886.4	13905.7	14420.0	13064.5
50°	11165.9	11223.5	11507.1	11949.4	12266.6	12329.1	13602.8	15323.6	15376.5	15866.8	14395.9
52.5°	10829.4	10848.6	11564.8	12396.4	13035.7	13670.1	15121.7	16655.1	16808.9	17174.2	15592.8
55°	9695.0	9834.4	10920.7	12382.0	13641.3	14943.9	16746.4	18092.3	18231.7	18462.4	16645.5
57.5°	8378.0	8531.8	9853.7	11761.9	13900.9	16121.5	18250.9	19620.8	19716.9	19779.4	17611.6
60°	7238.8	7383.0	8743.3	10574.6	13641.3	16953.1	19649.6	21139.7	21221.4	21053.2	18097.1
62.5°	5840.1	5984.3	7354.2	9002.9	12622.3	17121.3	20687.9	22490.4	22524.0	22067.4	17799.1
65°	4402.9	4499.0	5643.0	7056.2	10839.0	16227.3	20923.4	23331.5	23297.9	22360.6	16905.0
66°	3946.3	4028.0	5037.4	6239.0	9911.3	15410.1	20606.1	23398.8	23365.2	22144.3	16318.6
67.5°	3403.1	3427.1	4258.7	5104.7	8291.5	13674.9	19640.0	23091.2	23120.0	21548.3	15246.7
70°	2658.1	2653.3	3133.9	3552.1	5662.2	9728.7	16381.1	21154.1	21293.5	19298.7	13002.0
72.5°	1701.6	1643.9	1922.7	2172.6	3297.4	5647.8	11944.5	17241.5	17477.0	15160.2	9685.4
75°	1014.2	956.5	1023.8	1086.3	1581.4	2715.8	7022.5	11733.1	11959.0	9719.1	5763.2
77.5°	759.5	735.4	740.2	687.4	701.8	1019.0	3206.0	6200.6	6364.0	3979.9	2187.0
80°	581.6	519.1	485.5	509.5	461.4	403.8	1192.1	2134.2	2235.1	942.1	456.6
82.5°	389.3	336.5	312.4	341.3	293.2	225.9	288.4	413.4	403.8	254.8	177.8
85°	201.9	173.0	173.0	173.0	149.0	110.6	125.0	168.2	168.2	134.6	105.7
87.5°	57.7	52.9	62.5	57.7	43.3	43.3	48.1	57.7	57.7	52.9	48.1
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°	2158.2	2158.2	2158.2	2158.2	2158.2	2158.2	2158.2	2158.2	2158.2	2158.2	2158.2
2.5°	2153.4	2134.2	2081.3	2042.8	2004.4	1970.7	1932.3	1922.7	1903.4	1908.2	1898.6
5°	2167.8	2114.9	2023.6	1937.1	1869.8	1812.1	1740.0	1711.2	1672.7	1658.3	1648.7
7.5°	2187.0	2110.1	1975.5	1855.4	1740.0	1624.7	1509.3	1442.0	1398.7	1379.5	1365.1
10°	2230.3	2129.3	1951.5	1764.0	1567.0	1403.5	1288.2	1240.1	1211.3	1206.5	1201.7
12.5°	2288.0	2158.2	1927.5	1648.7	1389.1	1235.3	1163.2	1148.8	1144.0	1144.0	1139.2
15°	2374.5	2206.3	1889.0	1514.1	1249.7	1144.0	1110.3	1086.3	1076.7	1076.7	1076.7
17.5°	2461.0	2263.9	1831.3	1374.7	1153.6	1086.3	1052.7	1038.2	1028.6	1033.4	1028.6
20°	2571.6	2331.2	1754.4	1254.5	1091.1	1038.2	1004.6	990.2	985.4	985.4	985.4
22.5°	2696.5	2408.1	1658.3	1163.2	1038.2	990.2	956.5	942.1	932.5	937.3	937.3
25°	2864.8	2504.3	1557.4	1071.9	985.4	942.1	903.7	884.4	884.4	889.2	894.0
27.5°	3081.1	2619.6	1456.4	1014.2	937.3	894.0	850.8	831.6	836.4	846.0	846.0
30°	3398.3	2778.2	1355.5	951.7	884.4	836.4	797.9	778.7	788.3	807.5	807.5
32.5°	3850.1	3037.8	1269.0	879.6	807.5	754.6	716.2	701.8	725.8	764.3	764.3
35°	4657.7	3513.7	1216.1	807.5	725.8	663.3	615.3	600.8	634.5	682.5	682.5
37.5°	5739.2	4277.9	1235.3	745.0	658.5	586.4	533.5	514.3	538.3	581.6	596.0
40°	6945.6	5200.8	1403.5	692.2	596.0	523.9	471.1	451.8	466.2	485.5	490.3
42.5°	8152.1	6181.4	1720.8	653.7	548.0	471.1	423.0	408.6	418.2	423.0	427.8
45°	9353.8	7152.3	2119.7	629.7	504.7	427.8	379.7	379.7	384.5	384.5	384.5
47.5°	10492.9	8099.2	2537.9	624.9	466.2	384.5	346.1	350.9	350.9	355.7	355.7
50°	11569.6	8945.2	2960.9	639.3	432.6	346.1	317.2	317.2	317.2	322.0	317.2
52.5°	12468.5	9685.4	3403.1	663.3	399.0	317.2	288.4	288.4	288.4	293.2	288.4
55°	13319.3	10358.3	3854.9	697.0	370.1	293.2	264.4	254.8	254.8	259.6	254.8
57.5°	14011.4	10805.4	4282.7	701.8	346.1	269.2	245.1	230.7	230.7	230.7	230.7
60°	14040.2	10545.8	4407.7	615.3	317.2	245.1	221.1	201.9	206.7	206.7	206.7
62.5°	13122.2	9180.7	3542.5	461.4	283.6	221.1	201.9	182.7	182.7	182.7	182.7
65°	11319.7	7142.7	2076.5	365.3	245.1	197.1	177.8	163.4	163.4	163.4	158.6
66°	10473.7	6263.1	1591.0	331.7	230.7	192.3	173.0	158.6	153.8	149.0	149.0
67.5°	9094.2	4950.9	995.0	293.2	211.5	177.8	158.6	144.2	139.4	134.6	134.6
70°	6849.5	3143.6	485.5	225.9	182.7	153.8	139.4	125.0	120.2	115.4	110.6
72.5°	4806.7	1841.0	254.8	173.0	149.0	134.6	120.2	105.7	100.9	96.1	96.1
75°	2715.8	889.2	168.2	125.0	120.2	110.6	100.9	86.5	81.7	81.7	81.7
77.5°	1028.6	307.6	115.4	91.3	96.1	86.5	72.1	72.1	67.3	72.1	67.3
80°	269.2	134.6	72.1	67.3	72.1	62.5	52.9	57.7	57.7	57.7	57.7
82.5°	144.2	76.9	43.3	48.1	43.3	43.3	33.6	38.5	43.3	38.5	43.3
85°	100.9	38.5	24.0	24.0	19.2	19.2	14.4	19.2	24.0	19.2	19.2
87.5°	52.9	14.4	14.4	14.4	14.4	9.6	4.8	0.0	4.8	4.8	4.8
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)