

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: P1211128

Luminaire Tested: **ARCH4-180-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211128
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: ARCH4-180-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1455mA 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: 19130 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 180
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

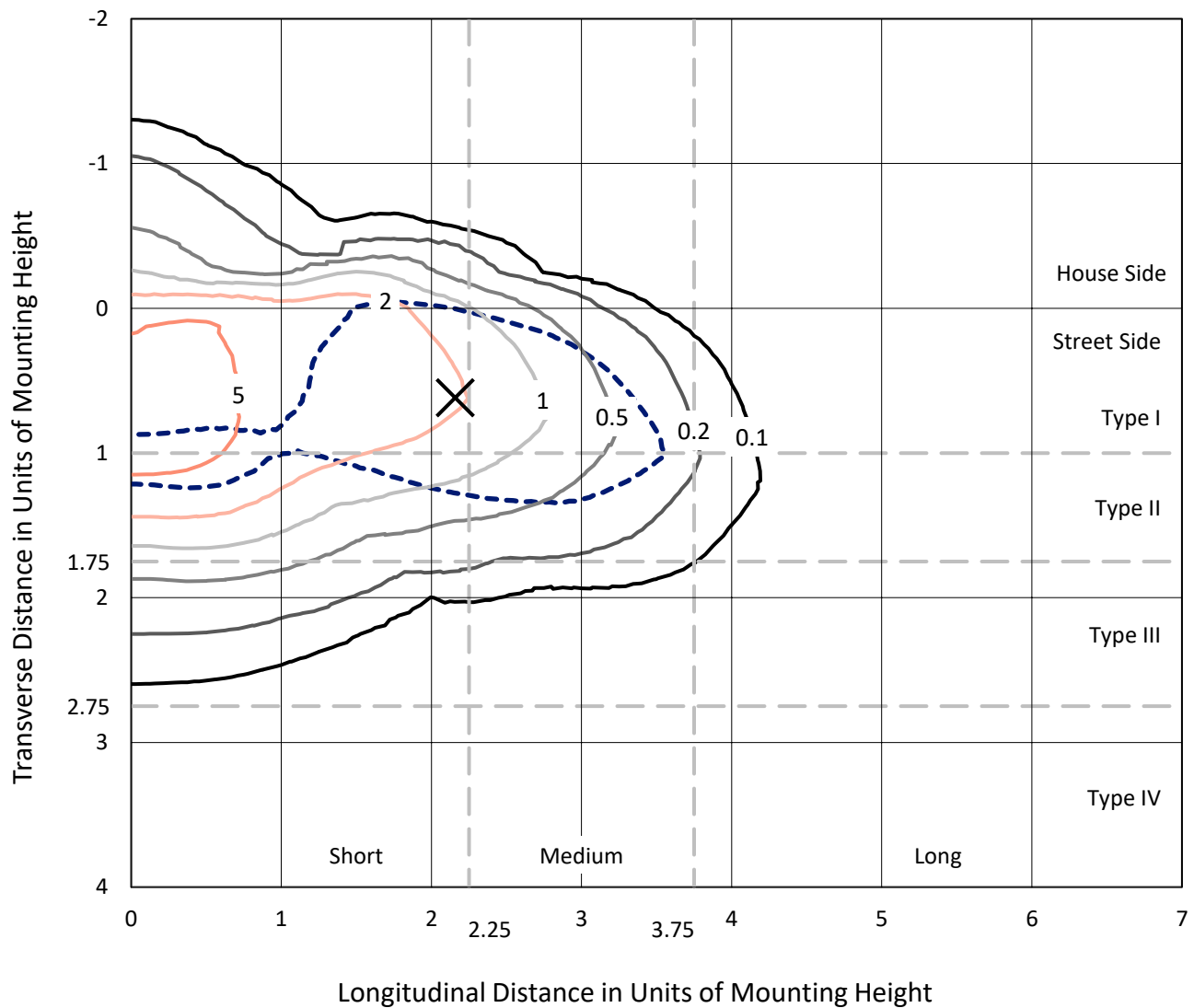


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Iso-Footcandle Lines of Horizontal Illumination

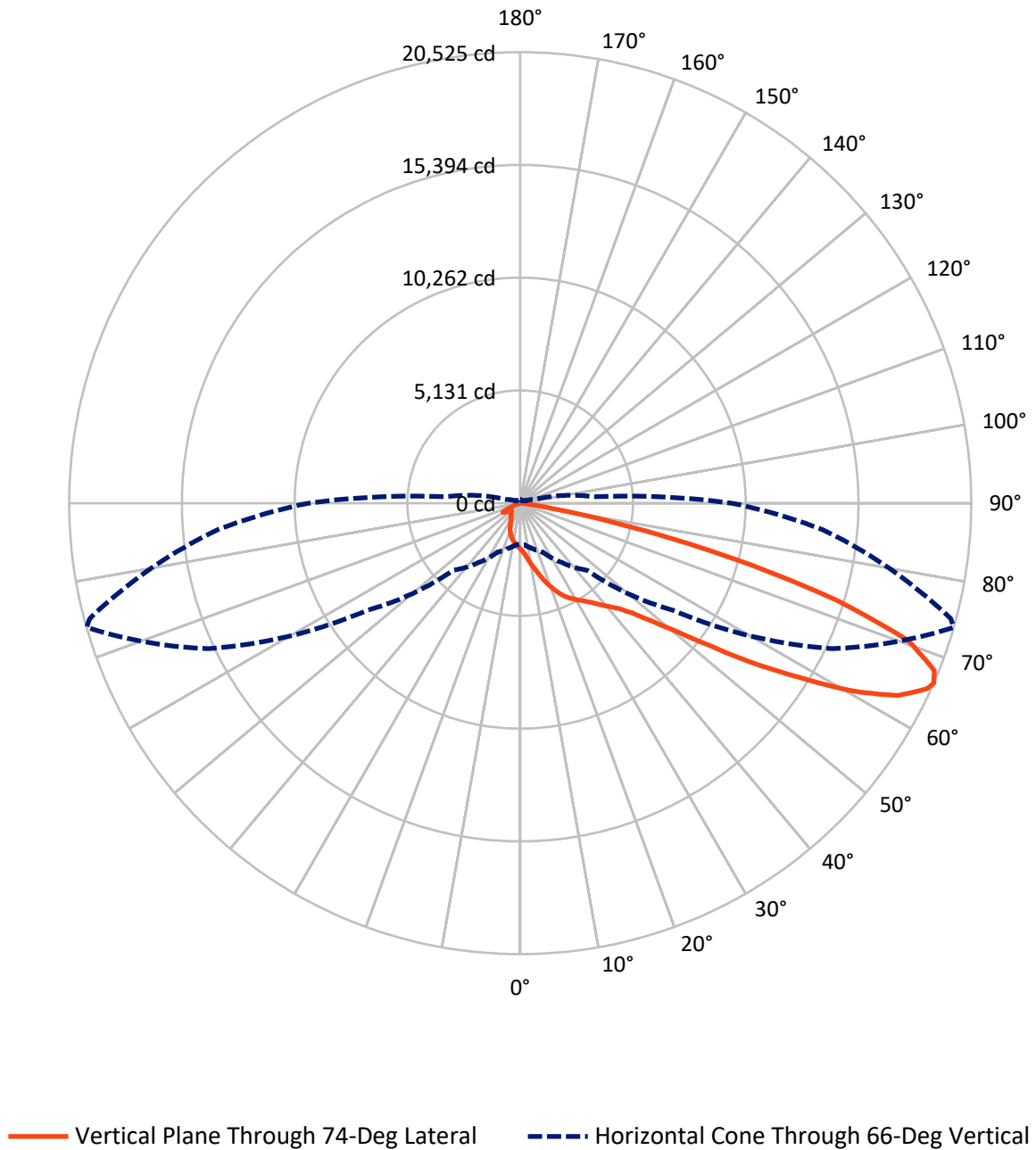
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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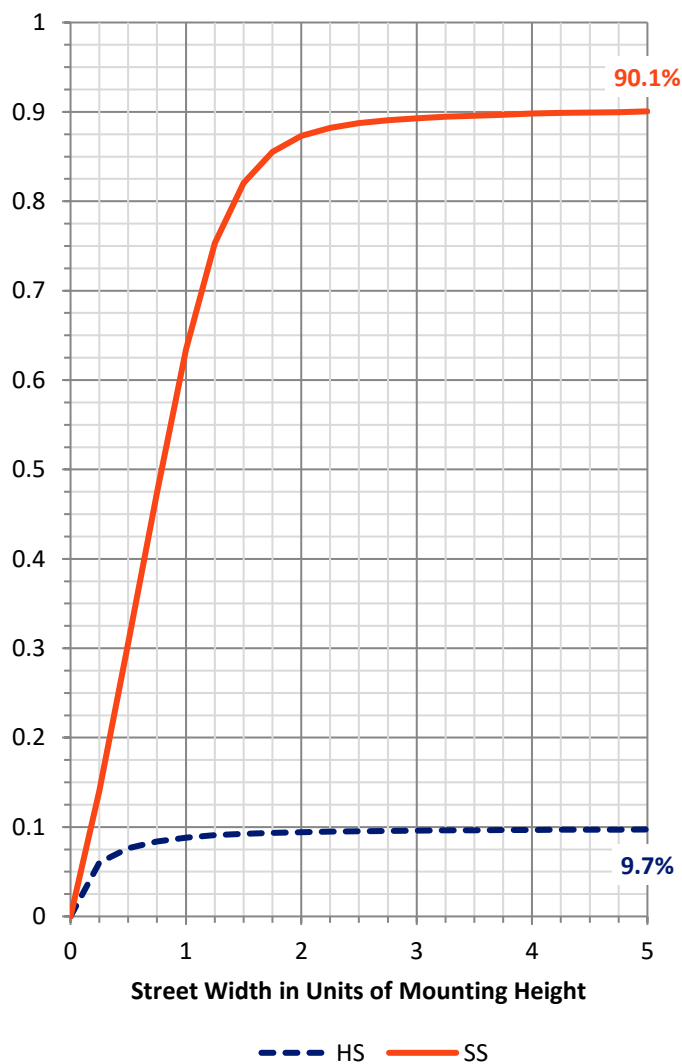
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1875.3	0.0	1875.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	17254.7	0.0	17254.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	19130.0	0.0	19130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	1.1
10°-20°	653.4	3.4
20°-30°	1247.0	6.5
30°-40°	2185.7	11.4
40°-50°	3747.9	19.6
50°-60°	4874.5	25.5
60°-70°	4412.6	23.1
70°-80°	1702.6	8.9
80°-90°	102.4	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°	19130.0	100.0
0°-180°	19130.0	100.0

Coefficient of Utilization



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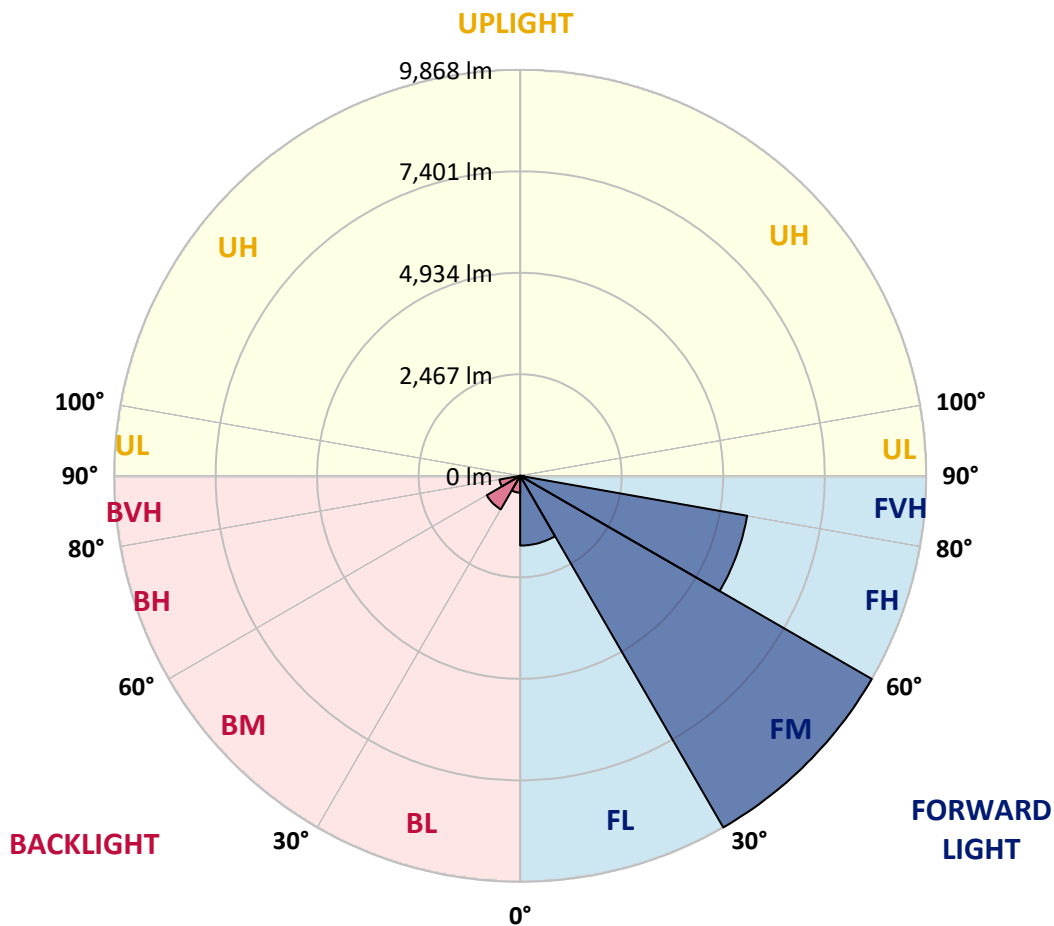
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1695.2	8.9			
FM	(30°-60°)	9868.2	51.6			
FH	(60°-80°)	5602.5	29.3			G3/7500
FVH	(80°-90°)	88.7	0.5			G1/100
BL	(0°-30°)	409.1	2.1	B1/500		
BM	(30°-60°)	939.9	4.9	B1/1000		
BH	(60°-80°)	512.7	2.7	B2/1000		G2/1000
BVH	(80°-90°)	13.7	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2
2.5°	2507.2	2486.6	2448.8	2445.4	2414.5	2376.7	2311.5	2242.8	2194.7	2187.8	2129.4
5°	3001.8	2991.5	2953.7	2929.7	2871.3	2782.0	2630.9	2479.7	2352.7	2338.9	2208.4
7.5°	3132.3	3139.2	3146.0	3170.1	3149.5	3108.3	2994.9	2782.0	2582.8	2551.9	2325.2
10°	3152.9	3146.0	3146.0	3177.0	3235.3	3293.7	3280.0	3098.0	2840.4	2802.6	2486.6
12.5°	3376.2	3386.5	3362.4	3348.7	3338.4	3369.3	3472.3	3393.3	3111.7	3080.8	2682.4
15°	3664.7	3661.2	3626.9	3626.9	3596.0	3544.5	3609.7	3668.1	3438.0	3400.2	2905.6
17.5°	3874.2	3887.9	3884.5	3905.1	3894.8	3826.1	3791.7	3911.9	3774.6	3726.5	3159.8
20°	4042.5	4080.2	4094.0	4159.2	4190.1	4142.1	4052.8	4128.3	4097.4	4052.8	3417.4
22.5°	4221.1	4252.0	4276.0	4389.4	4475.2	4464.9	4351.6	4334.4	4410.0	4368.7	3671.5
25°	4399.7	4413.4	4485.5	4622.9	4760.3	4794.6	4677.9	4543.9	4691.6	4653.8	3898.2
27.5°	4595.4	4602.3	4688.2	4856.5	5048.8	5120.9	5028.2	4780.9	4908.0	4908.0	4104.3
30°	4952.6	5021.3	5055.7	5206.8	5375.1	5474.7	5364.8	5031.6	5100.3	5131.2	4320.7
32.5°	5722.0	5732.3	5722.0	5787.2	5821.6	5879.9	5752.9	5313.2	5296.1	5330.4	4533.6
35°	6896.6	6855.4	6745.5	6649.3	6450.1	6340.2	6175.3	5673.9	5536.5	5584.6	4743.1
37.5°	8321.9	8263.5	8012.8	7717.4	7291.5	6851.9	6645.8	6113.5	5842.2	5904.0	4969.8
40°	9682.0	9644.2	9345.4	8981.3	8253.2	7501.1	7064.9	6484.4	6182.2	6206.2	5199.9
42.5°	10801.7	10794.8	10544.1	10162.8	9228.6	8201.7	7559.4	6848.5	6539.4	6577.2	5440.3
45°	11650.0	11584.7	11399.3	11124.5	10173.1	8929.8	8157.1	7401.4	7112.9	7157.6	5801.0
47.5°	11650.0	11660.3	11780.5	11753.0	10832.6	9613.3	8809.6	8098.7	7961.3	8002.5	6395.1
50°	10702.0	10798.2	11334.0	11783.9	11176.0	10145.7	9513.7	8971.0	9111.9	9173.7	7432.4
52.5°	8826.8	8988.2	9919.0	10945.9	10921.9	10413.5	10241.8	10080.4	10712.4	10822.3	8964.2
55°	6707.7	6814.1	8026.5	9376.3	9815.9	10193.7	10877.2	11488.6	12831.5	12807.4	10520.0
57.5°	5011.0	5110.6	6154.7	7652.2	8232.6	9242.4	11203.5	13099.4	14933.4	15026.1	11979.7
60°	3685.3	3760.8	4650.4	5879.9	6718.0	7786.1	11073.0	14686.1	17354.8	17248.3	13267.7
62.5°	2727.0	2768.2	3410.5	4210.8	5323.5	6343.6	10252.1	15771.4	19288.4	19072.0	13985.5
65°	2108.8	2122.6	2455.7	2881.6	3870.7	4932.0	9029.4	15936.3	20356.6	20126.4	13971.7
66°	1878.7	1889.0	2132.9	2462.6	3293.7	4317.2	8493.6	15671.8	20524.9	20281.0	13800.0
67.5°	1576.5	1569.6	1713.8	1930.2	2472.9	3331.5	7542.3	14899.1	20325.7	20202.0	13250.5
70°	1167.7	1171.2	1243.3	1294.8	1445.9	1844.4	5447.2	12924.2	18732.0	18725.2	11742.7
72.5°	865.5	875.8	930.8	941.1	903.3	999.5	3139.2	10279.6	14984.9	14988.4	8778.7
75°	649.1	666.3	683.5	690.3	656.0	632.0	1418.5	6917.2	9857.2	9785.0	4969.8
77.5°	494.6	501.4	515.2	504.9	498.0	436.2	590.7	3372.7	4866.8	4434.0	1610.8
80°	360.6	360.6	374.4	360.6	357.2	312.5	322.8	1081.9	1428.8	1188.4	346.9
82.5°	226.7	223.2	233.5	230.1	223.2	199.2	188.9	302.2	329.7	295.4	168.3
85°	127.1	123.6	120.2	116.8	106.5	89.3	103.0	113.3	151.1	154.6	120.2
87.5°	44.6	44.6	41.2	37.8	30.9	30.9	37.8	37.8	55.0	55.0	61.8
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°	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2
2.5°	2101.9	2064.2	2009.2	1937.1	1885.6	1834.0	1779.1	1748.2	1703.5	1693.2	1707.0
5°	2139.7	2071.0	1933.7	1782.5	1652.0	1535.2	1425.3	1360.1	1294.8	1270.8	1281.1
7.5°	2218.7	2101.9	1868.4	1624.5	1408.2	1233.0	1102.5	1026.9	968.5	944.5	951.4
10°	2335.5	2156.9	1806.6	1445.9	1167.7	982.3	872.4	824.3	789.9	776.2	779.6
12.5°	2476.3	2235.9	1727.6	1267.3	961.7	800.2	748.7	738.4	731.6	724.7	728.1
15°	2634.3	2304.6	1634.8	1092.2	800.2	711.0	693.8	690.3	686.9	686.9	686.9
17.5°	2799.2	2366.4	1531.8	927.3	697.2	656.0	645.7	645.7	645.7	649.1	649.1
20°	2953.7	2414.5	1411.6	779.6	638.8	604.5	597.6	597.6	601.0	604.5	604.5
22.5°	3104.8	2435.1	1270.8	676.6	590.7	559.8	549.5	549.5	549.5	553.0	553.0
25°	3235.3	2435.1	1130.0	611.3	549.5	518.6	504.9	501.4	504.9	504.9	504.9
27.5°	3345.2	2424.8	992.6	566.7	508.3	477.4	463.7	460.2	467.1	470.5	470.5
30°	3462.0	2411.1	882.7	525.5	474.0	443.1	429.3	429.3	439.6	453.4	453.4
32.5°	3575.4	2421.4	796.8	491.1	439.6	415.6	401.8	405.3	425.9	446.5	446.5
35°	3695.6	2442.0	745.3	467.1	415.6	391.5	381.2	391.5	412.1	432.8	432.8
37.5°	3815.8	2466.0	714.4	446.5	395.0	370.9	364.1	377.8	401.8	422.4	425.9
40°	3942.9	2486.6	680.0	425.9	381.2	353.8	350.3	364.1	395.0	415.6	419.0
42.5°	4100.8	2527.8	638.8	408.7	367.5	333.2	336.6	346.9	377.8	408.7	412.1
45°	4410.0	2658.3	597.6	391.5	350.3	322.8	316.0	322.8	357.2	391.5	398.4
47.5°	4990.4	2953.7	553.0	374.4	333.2	316.0	288.5	295.4	326.3	364.1	367.5
50°	6103.2	3582.2	528.9	357.2	319.4	291.9	261.0	261.0	285.1	319.4	319.4
52.5°	7837.6	4708.8	542.7	343.5	302.2	267.9	237.0	233.5	247.3	271.3	271.3
55°	9709.5	5945.2	594.2	329.7	281.6	254.2	219.8	202.6	212.9	226.7	226.7
57.5°	11193.2	6566.9	735.0	322.8	257.6	243.9	199.2	175.2	185.5	199.2	199.2
60°	11845.8	6202.8	893.0	329.7	240.4	226.7	178.6	154.6	171.7	185.5	188.9
62.5°	11316.8	5107.2	958.2	312.5	216.4	202.6	175.2	144.3	164.9	175.2	178.6
65°	10173.1	3881.0	748.7	271.3	199.2	175.2	158.0	137.4	154.6	164.9	164.9
66°	9630.5	3383.0	638.8	250.7	192.3	164.9	151.1	137.4	151.1	158.0	161.4
67.5°	8789.0	2668.6	474.0	219.8	178.6	151.1	140.8	130.5	144.3	151.1	151.1
70°	6872.5	1590.2	285.1	171.7	154.6	133.9	127.1	120.2	130.5	133.9	133.9
72.5°	4303.5	755.6	182.0	127.1	130.5	127.1	106.5	113.3	116.8	120.2	120.2
75°	2084.8	298.8	123.6	92.7	106.5	120.2	85.9	99.6	103.0	109.9	106.5
77.5°	580.4	144.3	79.0	68.7	92.7	92.7	65.3	79.0	92.7	116.8	106.5
80°	168.3	92.7	51.5	51.5	65.3	65.3	44.6	55.0	61.8	68.7	72.1
82.5°	116.8	61.8	34.3	37.8	37.8	41.2	27.5	27.5	34.3	34.3	37.8
85°	92.7	27.5	20.6	24.0	17.2	20.6	13.7	13.7	17.2	13.7	13.7
87.5°	37.8	13.7	13.7	13.7	10.3	10.3	6.9	3.4	3.4	3.4	3.4
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)