

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: P1211288

Luminaire Tested: **ARCH4-230-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211288
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: ARCH4-230-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 905mA 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: 23234 lumens
Efficiency: N/A
Efficacy: 100.5 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): 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



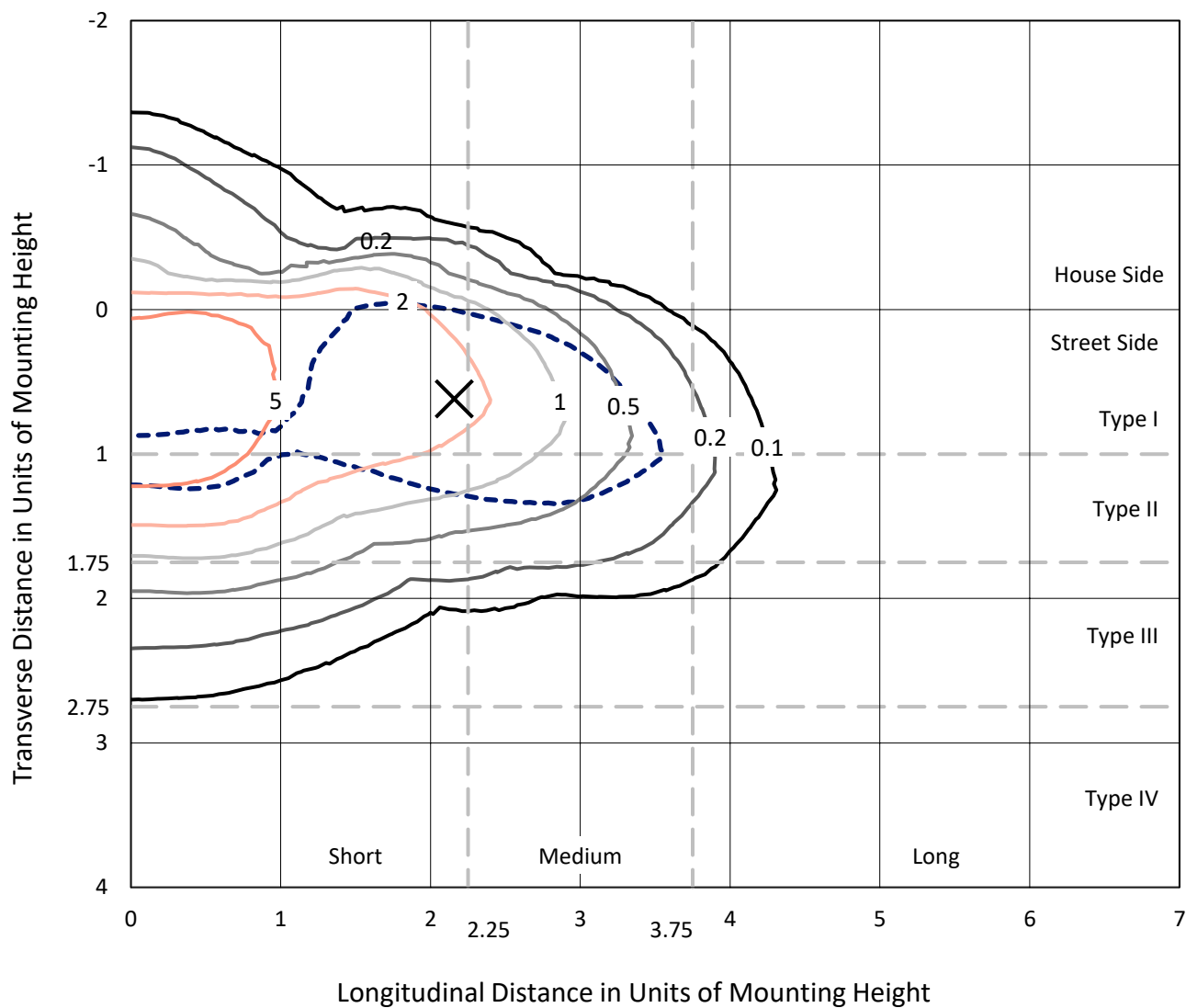
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Iso-Footcandle Lines of Horizontal Illumination

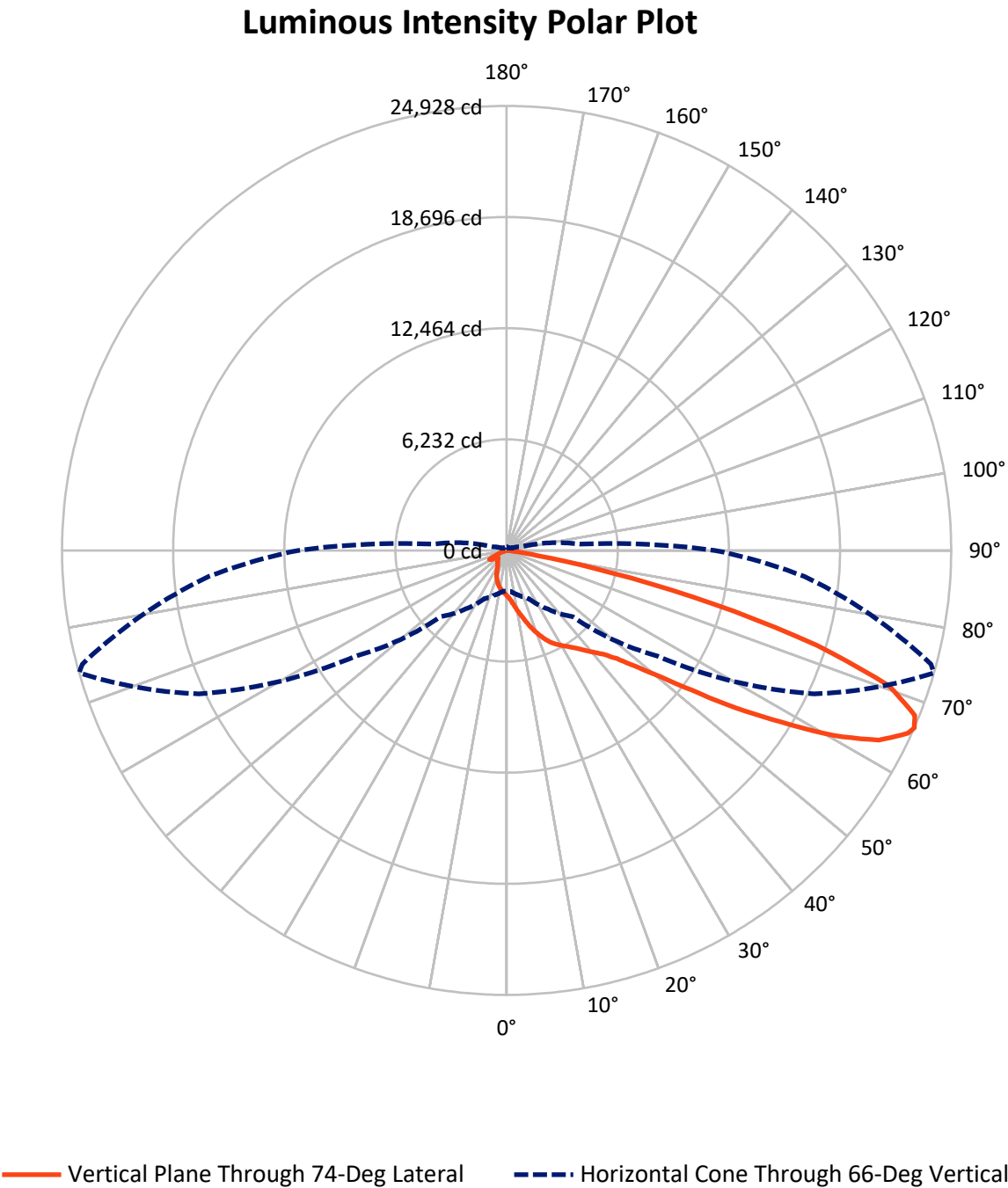
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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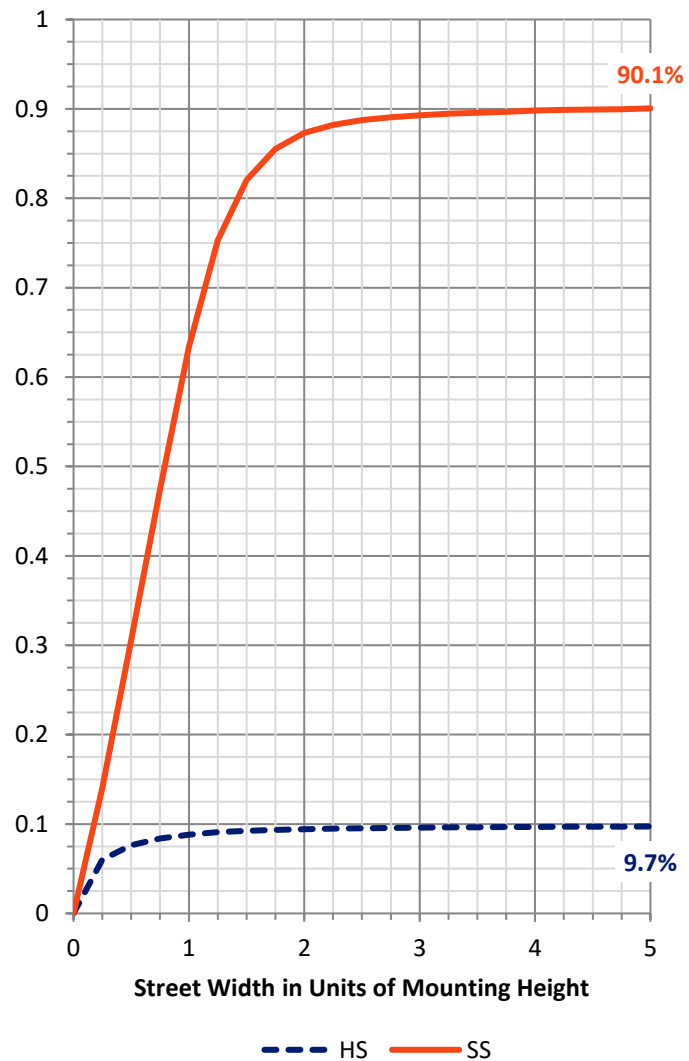
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2277.7	0.0	2277.7
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	20956.3	0.0	20956.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	23234.0	0.0	23234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.5	1.1
10°-20°	793.6	3.4
20°-30°	1514.5	6.5
30°-40°	2654.6	11.4
40°-50°	4552.0	19.6
50°-60°	5920.2	25.5
60°-70°	5359.2	23.1
70°-80°	2067.9	8.9
80°-90°	124.4	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°	23234.0	100.0
0°-180°	23234.0	100.0

Coefficient of Utilization



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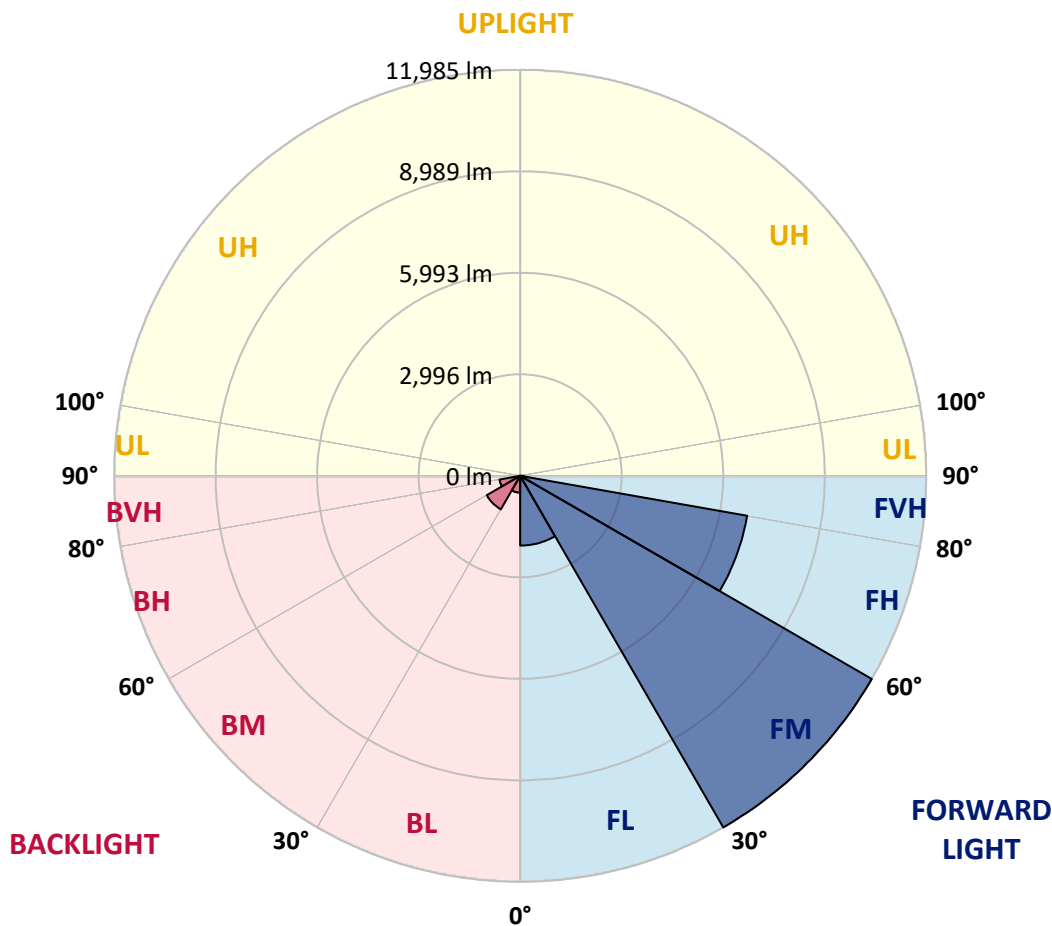
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2058.9	8.9			
FM	(30°-60°)	11985.3	51.6			
FH	(60°-80°)	6804.4	29.3			G3/7500
FVH	(80°-90°)	107.8	0.5			G2/225
BL	(0°-30°)	496.8	2.1	B1/500		
BM	(30°-60°)	1141.5	4.9	B2/2500		
BH	(60°-80°)	622.7	2.7	B2/1000		G2/1000
BVH	(80°-90°)	16.7	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°	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2
2.5°	3045.1	3020.1	2974.2	2970.0	2932.5	2886.6	2807.3	2723.9	2665.5	2657.2	2586.2
5°	3645.8	3633.3	3587.4	3558.2	3487.3	3378.8	3195.3	3011.7	2857.4	2840.7	2682.2
7.5°	3804.3	3812.6	3821.0	3850.2	3825.1	3775.1	3637.4	3378.8	3136.9	3099.3	2824.0
10°	3829.3	3821.0	3821.0	3858.5	3929.4	4000.3	3983.7	3762.6	3449.7	3403.8	3020.1
12.5°	4100.5	4113.0	4083.8	4067.1	4054.6	4092.1	4217.3	4121.3	3779.3	3741.7	3257.8
15°	4450.9	4446.7	4405.0	4405.0	4367.4	4304.9	4384.1	4455.0	4175.5	4129.7	3529.0
17.5°	4705.3	4722.0	4717.8	4742.8	4730.3	4646.9	4605.2	4751.2	4584.3	4525.9	3837.7
20°	4909.7	4955.6	4972.3	5051.5	5089.1	5030.7	4922.2	5014.0	4976.4	4922.2	4150.5
22.5°	5126.6	5164.2	5193.4	5331.0	5435.3	5422.8	5285.1	5264.3	5356.0	5306.0	4459.2
25°	5343.5	5360.2	5447.8	5614.7	5781.5	5823.2	5681.4	5518.7	5698.1	5652.2	4734.5
27.5°	5581.3	5589.6	5693.9	5898.3	6131.9	6219.5	6106.9	5806.5	5960.9	5960.9	4984.8
30°	6015.1	6098.5	6140.3	6323.8	6528.2	6649.2	6515.7	6111.1	6194.5	6232.0	5247.6
32.5°	6949.5	6962.0	6949.5	7028.8	7070.5	7141.4	6987.0	6453.1	6432.2	6474.0	5506.2
35°	8376.1	8326.1	8192.6	8075.8	7833.8	7700.3	7500.1	6891.1	6724.2	6782.6	5760.7
37.5°	10107.2	10036.3	9731.8	9373.1	8855.8	8321.9	8071.6	7425.0	7095.5	7170.6	6036.0
40°	11759.1	11713.2	11350.3	10908.1	10023.8	9110.3	8580.5	7875.5	7508.5	7537.7	6315.5
42.5°	13119.0	13110.6	12806.1	12343.1	11208.5	9961.2	9181.2	8317.7	7942.3	7988.2	6607.4
45°	14149.3	14070.0	13844.8	13511.1	12355.6	10845.6	9907.0	8989.3	8638.9	8693.1	7045.4
47.5°	14149.3	14161.8	14307.8	14274.4	13156.5	11675.7	10699.6	9836.1	9669.2	9719.3	7767.1
50°	12998.0	13114.8	13765.5	14312.0	13573.6	12322.2	11554.7	10895.6	11066.6	11141.7	9026.8
52.5°	10720.4	10916.5	12046.9	13294.2	13265.0	12647.6	12439.0	12243.0	13010.5	13144.0	10887.3
55°	8146.7	8276.0	9748.5	11387.8	11921.8	12380.6	13210.7	13953.2	15584.2	15555.0	12776.9
57.5°	6086.0	6207.0	7475.1	9293.8	9998.8	11225.2	13607.0	15909.6	18137.1	18249.7	14549.7
60°	4475.9	4567.6	5648.0	7141.4	8159.2	9456.5	13448.5	17836.8	21077.9	20948.6	16114.0
62.5°	3312.1	3362.1	4142.2	5114.1	6465.6	7704.5	12451.5	19154.9	23426.4	23163.6	16985.8
65°	2561.2	2577.9	2982.5	3499.8	4701.1	5990.1	10966.5	19355.1	24723.7	24444.2	16969.1
66°	2281.7	2294.3	2590.4	2990.9	4000.3	5243.4	10315.8	19034.0	24928.1	24631.9	16760.6
67.5°	1914.7	1906.3	2081.5	2344.3	3003.4	4046.2	9160.3	18095.4	24686.2	24536.0	16093.1
70°	1418.3	1422.4	1510.0	1572.6	1756.1	2240.0	6615.8	15696.9	22750.6	22742.3	14261.9
72.5°	1051.2	1063.7	1130.4	1143.0	1097.1	1213.9	3812.6	12484.9	18199.7	18203.9	10662.0
75°	788.4	809.2	830.1	838.4	796.7	767.5	1722.8	8401.1	11971.8	11884.2	6036.0
77.5°	600.7	609.0	625.7	613.2	604.8	529.8	717.5	4096.3	5910.8	5385.2	1956.4
80°	438.0	438.0	454.7	438.0	433.8	379.6	392.1	1314.0	1735.3	1443.3	421.3
82.5°	275.3	271.1	283.7	279.5	271.1	241.9	229.4	367.1	400.5	358.7	204.4
85°	154.3	150.2	146.0	141.8	129.3	108.5	125.1	137.7	183.5	187.7	146.0
87.5°	54.2	54.2	50.1	45.9	37.5	37.5	45.9	45.9	66.7	66.7	75.1
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°	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2	2536.2
2.5°	2552.9	2507.0	2440.3	2352.7	2290.1	2227.5	2160.8	2123.2	2069.0	2056.5	2073.2
5°	2598.8	2515.3	2348.5	2164.9	2006.4	1864.6	1731.1	1651.9	1572.6	1543.4	1555.9
7.5°	2694.7	2552.9	2269.2	1973.1	1710.3	1497.5	1339.0	1247.2	1176.3	1147.1	1155.5
10°	2836.5	2619.6	2194.1	1756.1	1418.3	1193.0	1059.5	1001.1	959.4	942.7	946.9
12.5°	3007.6	2715.6	2098.2	1539.2	1168.0	971.9	909.4	896.8	888.5	880.2	884.3
15°	3199.4	2799.0	1985.6	1326.5	971.9	863.5	842.6	838.4	834.3	834.3	834.3
17.5°	3399.7	2874.1	1860.4	1126.3	846.8	796.7	784.2	784.2	784.2	788.4	788.4
20°	3587.4	2932.5	1714.4	946.9	775.9	734.2	725.8	725.8	730.0	734.2	734.2
22.5°	3770.9	2957.5	1543.4	821.8	717.5	679.9	667.4	667.4	667.4	671.6	671.6
25°	3929.4	2957.5	1372.4	742.5	667.4	629.9	613.2	609.0	613.2	613.2	613.2
27.5°	4062.9	2945.0	1205.5	688.3	617.4	579.8	563.1	559.0	567.3	571.5	571.5
30°	4204.7	2928.3	1072.0	638.2	575.6	538.1	521.4	521.4	533.9	550.6	550.6
32.5°	4342.4	2940.8	967.8	596.5	533.9	504.7	488.1	492.2	517.2	542.3	542.3
35°	4488.4	2965.8	905.2	567.3	504.7	475.5	463.0	475.5	500.6	525.6	525.6
37.5°	4634.4	2995.0	867.6	542.3	479.7	450.5	442.2	458.9	488.1	513.1	517.2
40°	4788.7	3020.1	825.9	517.2	463.0	429.7	425.5	442.2	479.7	504.7	508.9
42.5°	4980.6	3070.1	775.9	496.4	446.3	404.6	408.8	421.3	458.9	496.4	500.6
45°	5356.0	3228.6	725.8	475.5	425.5	392.1	383.8	392.1	433.8	475.5	483.9
47.5°	6061.0	3587.4	671.6	454.7	404.6	383.8	350.4	358.7	396.3	442.2	446.3
50°	7412.5	4350.7	642.4	433.8	387.9	354.6	317.0	317.0	346.2	387.9	387.9
52.5°	9519.1	5718.9	659.1	417.1	367.1	325.4	287.8	283.7	300.3	329.5	329.5
55°	11792.5	7220.6	721.6	400.5	342.1	308.7	267.0	246.1	258.6	275.3	275.3
57.5°	13594.5	7975.7	892.7	392.1	312.9	296.2	241.9	212.7	225.3	241.9	241.9
60°	14387.0	7533.5	1084.6	400.5	292.0	275.3	216.9	187.7	208.6	225.3	229.4
62.5°	13744.7	6202.8	1163.8	379.6	262.8	246.1	212.7	175.2	200.2	212.7	216.9
65°	12355.6	4713.6	909.4	329.5	241.9	212.7	191.9	166.9	187.7	200.2	200.2
66°	11696.5	4108.8	775.9	304.5	233.6	200.2	183.5	166.9	183.5	191.9	196.1
67.5°	10674.5	3241.2	575.6	267.0	216.9	183.5	171.0	158.5	175.2	183.5	183.5
70°	8346.9	1931.3	346.2	208.6	187.7	162.7	154.3	146.0	158.5	162.7	162.7
72.5°	5226.7	917.7	221.1	154.3	158.5	154.3	129.3	137.7	141.8	146.0	146.0
75°	2532.0	362.9	150.2	112.6	129.3	146.0	104.3	121.0	125.1	133.5	129.3
77.5°	705.0	175.2	95.9	83.4	112.6	112.6	79.3	95.9	112.6	141.8	129.3
80°	204.4	112.6	62.6	62.6	79.3	79.3	54.2	66.7	75.1	83.4	87.6
82.5°	141.8	75.1	41.7	45.9	45.9	50.1	33.4	33.4	41.7	41.7	45.9
85°	112.6	33.4	25.0	29.2	20.9	25.0	16.7	16.7	20.9	16.7	16.7
87.5°	45.9	16.7	16.7	16.7	12.5	12.5	8.3	4.2	4.2	4.2	4.2
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)